

**SHALLOW SOIL CLOSURE  
LOT 7, PARCEL C**

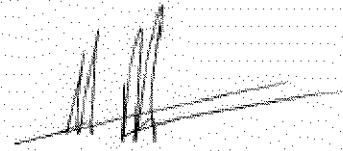
**BOEING REALTY CORPORATION  
FORMER C-6 FACILITY  
LOS ANGELES, CALIFORNIA**

Prepared for

**BOEING REALTY CORPORATION  
5760 KILROY AIRPORT WAY, SUITE 500  
LONG BEACH, CALIFORNIA 90806**

Prepared by

**HALEY & ALDRICH, INC.  
9040 Friars Road, Suite 220  
San Diego, California 92108  
(619) 280-9210  
(619) 280-9415 FAX**



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Scott P. Zachary  
Vice President

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Richard M. Farson, P.E.  
Senior Project Engineer

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## EXECUTIVE SUMMARY

Boeing Realty Corporation (BRC) has completed their source identification, investigation, and remediation of shallow soil within Parcel C. These activities included:

- Identifying environmental features for investigation;
- Performing the soil investigation;
- Removing shallow occurrences of elevated soil impacts.

Lot 7 comprises approximately 4.52 acres of the 50.5-acre Parcel C. Based on the closure evaluation presented herein, it is recommended that the Regional Water Quality Control Board – Los Angeles Region (LARWQCB) issue a “no further action” letter for shallow soil impacts at Lot 7 of Parcel C based on the following information and conclusions:

- The vertical and lateral extent of soil impacts related to on-site operations within Lot 7 of Parcel C have been delineated.
- Three areas of elevated shallow soil impacts identified at Lot 7 of Parcel C were of relatively limited extent, and had detectable concentrations of petroleum hydrocarbons, arsenic, and volatile organic compounds (VOCs).
- These three areas of elevated shallow soil impacts were remediated by excavation. Approximately 300 cubic yards of soil were removed from four excavations in Lot 7 of Parcel C.
- Residual concentrations of VOCs, metals and petroleum hydrocarbons remaining in shallow soil are considered to be low or below laboratory reporting limits.
- Based on the data from groundwater monitoring well TMW-16 in Lot 7, groundwater impacts above California MCLs were not detected within Lot 7.

Based on the results of the source identification, soil investigation, and remediation activities, shallow soil in Lot 7 of Parcel C can be closed and Lot 7 is suitable for redevelopment for industrial/commercial use.

## **1.0 BACKGROUND**

Haley & Aldrich, Inc. (Haley & Aldrich) has conducted an evaluation for recommended closure of the shallow soil at Lot 7 (soil at depths less than 12 feet below ground surface [bgs]) of Parcel C. Parcel C is one of four parcels (Parcels A through D) of the BRC Former C-6 Facility (Facility), at 19503 South Normandie Avenue, in Los Angeles, California (Figure 1). This shallow soil closure request for Lot 7 of Parcel C has been prepared to facilitate expedited City of Los Angeles redevelopment needs of Lot 7.

### **1.1 Facility Location**

The Facility is located at 19503 South Normandie Avenue, in Los Angeles, California. The approximate location of Lot 7 of Parcel C is depicted in Figure 2. The address of Lot 7 is 19320 Harbrogate Way.

### **1.2 Site Land Use History**

Parcel C consists of approximately 50.5 acres of the 170-acre Facility and is bordered by Parcel A and West 190<sup>th</sup> Street to the north; South Normandie Avenue, commercial and residential properties to the east; Parcel D, Montrose Chemical and residential properties to the south; and Parcel B, Western Avenue, Capitol Metals, and Lockheed Martin International Light Metals (ILM) to the west. The Facility was first developed by the Defense Plant Corporation in 1941 as part of an aluminum production plant and was operated by the Aluminum Corporation of America until late 1944 (Camp, Dresser & McKee, 1991). Aerial photographs indicate that the Facility property was farmland prior to the 1940s. From 1944 until 1948, the Facility property was used for warehousing by the War Assets Administration. In 1948, the Columbia Steel Company acquired the Facility. In March 1952, the U.S. Navy purchased the Facility and established Douglas Aircraft Company (DAC) as the contractor and operator of the Facility for the manufacture of aircraft and aircraft parts. DAC purchased the Facility from the Navy in 1970 (Camp, Dresser & McKee, 1991). DAC and its successor, McDonnell Douglas Corporation (created by the 1967 merger of DAC and McDonnell Aircraft Company), owned and operated the Facility and continued manufacturing aircraft components until 1992. The Boeing Company took ownership of the Facility in 1997 when it merged with McDonnell Douglas Corporation.

Although most manufacturing operations ceased in 1992, a limited amount of assembly and warehousing continued through the mid-1990s. The Facility is currently closed, and the buildings have been demolished and removed from the property. Shallow soil in Parcels A, B and D are closed and these parcels have been sold. Parcels A and B have been partially or fully redeveloped; Parcels C and D are currently vacant. Knox Street has recently been extended west to east across Parcel C, forming the southern boundary of Lot 7.

### **1.3 Description of Lot 7**

Lot 7 currently encompasses approximately 4.52 acres and formerly included all or portions of four buildings (Buildings 20, 29, 32, and 58) as shown on Figure 2. The use of these buildings and associated environmental features are described below. Information present in this section is based on a review of reports, drawings, and photographs provided by BRC and observations made during site visits and demolition activities.

#### Building 20

Building 20 served as a vehicle maintenance area (Kennedy/Jenks Consultants [KJC], 2000a). Environmental features included a battery recharging area, a 3-stage clarifier draining a steam cleaning booth, an above ground motor oil tank, hydraulic lifts and a condensation pit (Figure 3). Outside the building, underground storage tanks (USTs) that dispensed unleaded and regular gasoline from a pump island were also identified as environmental features.

#### Building 29

Building 29 was used as a machine and carpentry shop (KJC, 1996). Environmental features included a clarifier and a UST (Figure 3).

#### Building 32

Building 32 was built in the 1980s and contained a cafeteria and meeting hall (KJC, 2000a). A relatively small salvage yard was located outside the building to the north. Environmental features included a waste transfer area, paint storage, oil storage and USTs located immediately north, west and southwest of Building 32, respectively (Figure 3).

#### Building 58

Building 58 was reported by BRC to have been a cantilevered carport-type storage building used to stored trailers and vehicles. A pump house (Building 23) was located to the east of Building 58 (Figure 3). No environmental features were identified in these buildings.

### **1.4 Previous UST Investigation Results**

A total of 10 regulated USTs were documented in Lot 7. These USTs are referred to as 1T, 2T, 3T, 4T, 5T, 6T, 7T, 8T, 32T, and 88-01 and are shown on Figure 4. Table 1 provides a summary of the Parcel C, Lot 7 former USTs. The locations in Figure 4 are based on a Woodward-Clyde report (Woodward-Clyde, 1987). The 10 documented USTs have been removed and regulation of the UST cases is being addressed by the LARWQCB. For the 10 USTs, environmental issues were addressed in previous investigations during or shortly after the actual UST removals, which are summarized in Table 1. Table 1 also lists the compounds that were detected and their respective maximum concentrations. No significant environmental issues were identified for the 10 former USTs in Lot 7. Closure requests have been submitted for the 10 USTs and are currently under review by the LARWQCB.

### **1.5 Environmental Features**

The Parcel C Lot 7 soil investigation focused on environmental features (EFs) identified from a review of historical aircraft and earlier manufacturing operations. The EFs in Lot 7 of Parcel C are shown on Figure 3. Information for EF U6 was not readily available; however, UST 8T was reportedly to be approximately 100 feet south of the U6 location and may correspond to U6. Also, EF U7 was tentatively classified as a UST. Upon further review, it was determined not to be a UST as defined under California law.

### **1.6 Geologic and Hydrogeologic Setting**

The Facility is underlain by the Lakewood Formation that typically includes the Semi-Perched Aquifer, the Bellflower Aquitard and the Gage Aquifer. The Bellflower Aquitard is described as a heterogeneous mixture of continental, marine and wind-blown sediments, mainly consisting of clays with sandy and gravelly lenses (Department of Water Resources, 1961).

Prior to redevelopment, Parcel C, including Lot 7, was underlain by up to ten feet of artificial fill. The fill is heterogeneous in composition and varies in thickness across the parcel. The relatively fine-grained Bellflower Aquitard is the shallowest natural stratigraphic unit encountered at Parcel C. It is continuous across the area, but it thins to the northwest and southwest. The Bellflower Aquitard consists of laminated to massive yellowish brown silt and clay with local sands. It extends from directly beneath the fill to approximately 125 feet bgs at Parcel C.

## 2.0 FIELDWORK, SAMPLING, ANALYSIS AND RESULTS

A detailed description of the investigation approach, results and remediation for the entire Parcel C is presented in the Report for Soil Investigation, Soil Remediation and Screening-level Risk Assessment, Parcel C (Haley & Aldrich, Inc., 2002). A summary of the investigation and results for Lot 7 of Parcel C is presented below.

### 2.1 Soil Gas

Fifteen soil gas samples were collected in Lot 7 by KJC from approximately 10 feet bgs and analyzed for VOCs by Environmental Support Technologies' mobile laboratory using the Well Investigation Protocol (WIP) (Figure 5). Ten of the 15 soil gas samples were reported to have no detectable concentrations of VOCs. Five soil gas samples were reported to have low VOC concentrations of up to 4 micrograms per liter ( $\mu\text{g/l}$ ) of vapor (Figure 5). The VOCs that were detected include trichloroethene (TCE), 1,1-dichloroethene (DCE), 1,1,1-trichloroethane (TCA), toluene, trichlorofluoromethane, and o-xylene (Table 2).

### 2.2 Shallow Soil Investigation Results

From 1996 to 2001, a total of 97 soil borings were drilled and 250 soil samples were collected in Lot 7 by Haley & Aldrich, Inc., KJC, Montgomery Watson, and Tait & Associates, Inc. The soil samples were analyzed by California-certified analytical laboratories (Severn Trent Laboratories and Orange Coast Analytical) to evaluate the presence of soil impacts. Based on the analytical data from the current and previous investigations, VOC, total petroleum hydrocarbons (TPH), polycyclic aromatic hydrocarbons (PAHs), and arsenic impacts were detected at elevated concentrations at three locations in Lot 7 (see Figures 7 through 10). Laboratory analytical results for all compounds analyzed are included in Table 3.

VOCs detected in Lot 7 of Parcel C included: TCE, 1,1,1-TCA, 1,1-DCA, 1,2,3-trichlorobenzene, 1,2,4-trichlorobenzene, 1,2,4-trimethylbenzene, 2-butanone, acetone, ethylbenzene, methyl tertiary butyl ether (MTBE), m,p-xylene, total xylenes, toluene, and tetrachloroethene (PCE). TCE was the primary VOC detected. Figure 6 illustrates the pre-remediation concentrations of TCE detected in Lot 7 in the Building 32 (32-4) area.

TPH impacts including PAHs were detected at elevated concentrations in the M/L-23 area and are shown on Figures 7 and 9. These impacts occurred at a maximum depth of 9 feet bgs and were adjacent to a former oil pipeline.

Arsenic was detected at elevated concentrations in the M/L-23 area and the 2BB-5-20 area, north of former Building 32. Figures 9 and 10 illustrate the arsenic impacts in the M/L-23 and 2BB-5-20 areas respectively.

## 2.3 Shallow Soil Remediation

Guided by the results of the investigation and confirmation program, approximately 300 cubic yards of soil was excavated from three locations on Lot 7 (Figures 7 through 10) where elevated concentrations of VOCs, TPH/PAH, and arsenic were detected. These excavations are discussed below.

### Building 32 (32-4)

Remediation excavation area 32-4 contained elevated levels of TCE (up to 2,100 micrograms per kilogram [ $\mu\text{g}/\text{kg}$ ]) at approximately one foot bgs (Figure 8). Approximately 50 cubic yards of soil were excavated to remediate this limited VOC-impacted area. The excavation was approximately 11 feet by 33 feet by 4.5 feet deep. Six sidewall confirmation samples (Build-32-4-E-1 through Build-32-4-E-6) were obtained and contained maximum residual TCE concentrations up to 150  $\mu\text{g}/\text{kg}$ .

### Building 20 (M/L-23)

Remediation excavation area M/L-23 contained soil impacts consisting of TPH, arsenic, benzo(a)anthracene, benzo(a)pyrene and 2-methylnaphthalene as listed in Section 2.2 (Figure 9). Approximately 200 cubic yards of soil were removed from this location from an area measuring approximately 70 feet by 20 feet with depths of up to approximately 9 feet bgs. A total of four sidewall confirmation samples (Build-20-M-23-032101-3, Build-20-M-23-032101-5, Build-20-L-23-032101-6, and Build-20-L-23-050301-8) did not contain TPH and had concentrations of inorganic chemicals within natural background ranges. Confirmation samples obtained at the base of the excavation (Build-20-L-052301-10) had residual TPH concentrations of up to 200 milligrams per kilogram (mg/kg).

### Building 32 (2BB-5-20)

Remediation excavation area 2BB-5-20 contained elevated levels of arsenic at approximately one foot bgs in two locations (Figure 10). Approximately 50 cubic yards of arsenic-impacted soils were removed from the two excavations in the 2BB-5-20 area that measured approximately 20 feet by 15 feet and approximately 8 feet by 8 feet and both extended to a depth of approximately 4 feet bgs. Confirmation samples obtained from the excavations (Build-32-2-BB-5-20-5, Build-32-2-BB-5-20-6, Build-32-2-BB-5-20-7, Build-32-2-BB-5-20-8, and Build-32-2-BB-5-20-12) contained maximum arsenic concentrations of 6.5 mg/kg. To verify that no other elevated arsenic concentrations existed between the two excavations, the area was further delineated with 13 direct-push borings (PD-83 through PD-95) to approximately 3 feet bgs. The maximum residual concentration of arsenic in the confirmation samples was 18.8 mg/kg at 3 feet bgs in direct-push boring PD-89.

## 2.4 Backfill and Grading Activities

Upon completion of remedial excavation and confirmation sampling, the excavations were graded or backfilled with clean import fill. Prior to acceptance of import fill, the import site was screened for industrial use. If no industrial use was evident, soil samples were collected to verify no impacts were present. Only fill soils that passed this process were accepted.

Following excavation backfilling, Lot 7 was graded for redevelopment. As part of the grading process, the lot grade was subsequently elevated by approximately 3.5 feet through the addition of approximately 8,000 yards of clean soil import fill as discussed above.

## 2.5 Post-Remediation Residual Concentrations in Lot 7

The maximum post-remediation residual concentrations of compounds detected in shallow soil in Lot 7 of Parcel C are listed below. A "J" flag indicates that the laboratory estimated the reported concentration since the concentration was below the reporting limit, but above the method detection limit.

### VOCs

- 1,1,1-TCA, 1.8 J µg/kg;
- 1,1,-DCA, 16 µg/kg;
- 1,2,3-trichlorobenzene, 3.9 µg/kg;
- 1,2,4-trichlorobenzene, 4 µg/kg;
- 1,2,4-trimethylbenzene, 5.3 µg/kg;
- 2-butanone, 16 J µg/kg;
- acetone, 61 µg/kg;
- ethylbenzene, 9.7 µg/kg;
- m,p-xylene, 6.4 µg/kg;
- MTBE, 390 µg/kg;
- total xylenes, 86 µg/kg;
- toluene, 7.7 µg/kg;
- TCE, 150 µg/kg; and
- PCE, 15 µg/kg.

### Polyaromatic Hydrocarbons (PAHs)

- Benzo(a)anthracene, 21 J µg/kg;
- Bezno(b)fluoranthene, 14 J µg/kg;
- Benzo(g,h,i)perylene, 16 µg/kg;
- Benzo(k)fluoranthene, 4.6 J µg/kg;
- Chrysene, 23 J µg/kg;
- Dibenzon(a,h)anthracene, 25 J µg/kg;
- Fluoranthene, 16 J µg/kg;
- Indeno (1,2,3-cd)pyrene, 8.5 Jµg/kg; and

- Pyrene, 8.7 J µg/kg.

Petroleum Hydrocarbons

- TPH, 1,500 mg/kg.

Inorganic compounds

- Arsenic, 18.8 mg/kg.

Figures 11, 12, and 13 illustrate the post-remediation residual concentrations of VOCs, PAHs, and arsenic.

### **3.0 SUMMARY OF PARCEL C BELLFLOWER AQUITARD GROUNDWATER CONDITIONS**

Groundwater quality in Parcel C has been characterized through the installation and sampling of 26 groundwater monitoring wells and 41 groundwater grab samples since 1987. Groundwater quality for the Facility including Parcel C is presented in the Groundwater Monitoring Report-Annual Event, January/February 2001 (Haley & Aldrich, 2001).

The uppermost groundwater at the Facility appears to be under water table conditions at depths of 60 to 70 feet bgs in relatively permeable sediments of the Bellflower Aquitard. Groundwater flow within the Bellflower Aquitard is predominantly to the south-southeast under a horizontal hydraulic gradient of approximately 0.001 feet/foot and flows at a rate of approximately 10 to 20 feet per year (KJC, 2000b).

The VOC impacts in groundwater appear to originate from two areas of Parcel C neither of which are located on Lot 7: the former Building 1/36 chemical storage area around groundwater monitoring well TMW-2, and the former Building 2 clarifier and machining area in the vicinity of TMW-3 (Figures 14, 15, and 16). As shown in Figures 11, 12 and 13, one groundwater monitoring well (TWM-16) is on Lot 7 of Parcel C. Based on the results from the January 2001 groundwater sampling event, TCE, PCE, toluene, and total xylenes were detected in groundwater monitoring well TMW-16. The compound detected at the highest concentration is toluene at 12 µg/l. Groundwater samples collected since 1999 from TMW-16 in Lot 7 did not have analyte concentrations above California maximum contaminant levels (MCLs). It is therefore likely that groundwater beneath Lot 7 does not exceed MCLs for compounds of potential concern. This corroborates the soil investigation results.

#### 4.0 CONCLUSIONS

Lot 7 of Parcel C has undergone a comprehensive investigation by collecting and analyzing soil and soil gas samples from probes, borings and grab samples at targeted EFs and distributed throughout the surrounding open areas. Shallow soil remediation was conducted and shallow impacts have been delineated and remediated such that the upper 12 feet of soil at Lot 7 of Parcel C is suitable for closure. Accordingly, no additional investigations or remedial actions are recommended in shallow soil. Key conclusions from this project are:

- The vertical and lateral extent of soil impacts related to on-site operations within Lot 7 of Parcel C have been delineated.
- Three areas of elevated shallow soil impacts identified at Lot 7 of Parcel C were of relatively limited extent, and had detectable concentrations of petroleum hydrocarbons, arsenic, and VOCs.
- These areas of elevated shallow soil impacts were remediated by excavation and approximately 300 cubic yards of soil were removed from four excavations in Lot 7 of Parcel C.
- Residual concentrations of VOC, petroleum hydrocarbons, and metals remaining in shallow soil are considered to be low or below laboratory detection limits.
- Based on the data from TMW-16 in Lot 7, groundwater impacts above California MCLs were not detected within Lot 7.

Based on the investigation results, shallow soil can be closed with no further investigation or remedial action. As a result, Lot 7 of Parcel C is suitable for redevelopment for commercial and/or industrial use.

## 5.0 REFERENCES

American Integrated Services, Inc., 2000, *UST Closure Report*.

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## **TABLES**

**Table 1****Summary of Parcel C Lot 7 Former USTs**

Boeing Realty Corporation Former C-6 Facility, Parcel C, Lot 7  
Los Angeles, California.

<b>Boeing UST Number</b>	<b>Nearest Building</b>	<b>Tank Capacity (gallons)</b>	<b>Reported Content</b>	<b>Closure Activities</b>	<b>Reference</b>	<b>Status</b>
1T	20	12,000	gasoline	Thee confirmation samples were ND for TPH and VOCs. Lead was detected at a maximum concentration of 5.1 mg/kg, which was below the regulatory clean-up level.	WCC, 1987b; T&T, 1999	Request for closure submitted to LARWQCB
2T	20	4,000	gasoline	TPH was detected at 10 and 15 feet bgs at concentrations of 170 and 24,000 mg/kg, respectively. TPH was not detected in the soil sample collected from 20 feet bgs. Impacted soil was overexcavated to a depth of approximately 17 feet bgs.	WCC, 1987b; T&T, 1999	Request for closure submitted to LARWQCB
3T	20	4,000	gasoline	TPH was not detected in soil samples collected at 10, 15 and 20 feet bgs.	WCC, 1987b; T&T, 1999	Request for closure submitted to LARWQCB
4T	20	500	waste oil tank	42 mg/kg of TPH were detected which was below the regulatory clean-up level.	WCC, 1987b	Request for closure submitted to LARWQCB
5T	20	8,500	waste coolant	Excavated and backfilled; After removal of 5T, 6T and 7T, UST 88-01 was placed here. See UST 88-01 details below.	WCC, 1987b	Request for closure submitted to LARWQCB
6T	20	8,500	waste coolant	Excavated and backfilled; After removal of 5T, 6T and 7T, UST 88-01 was placed here. See UST 88-01 details below.	WCC, 1987b	Request for closure submitted to LARWQCB
7T	20	8,500	waste coolant	Excavated and backfilled; After removal of 5T, 6T and 7T, UST 88-01 was placed here. See UST 88-01 details below.	WCC, 1987b	Request for closure submitted to LARWQCB
8T	20	10,000	waste coolant	Five confirmation samples were collect: four of the samples were ND for TPH and one sample had a TPH concentration of 160 mg/kg which is below the regulatory clean-up level.	WCC, 1988a	Request for closure submitted to LARWQCB
32T	2	130	gasoline	Overexcavated to 14 feet bgs and confirmation sample was ND.	Crosby & Overton, 1988a, 1988b	Request for closure submitted to LARWQCB
88-01	20 (adj.)	6,000	unleaded gasoline	Placed in location previously occupied by 5T, 6T, 7T; subsequently removed. Two soil samples were collected from the bottom of the excavation and TPH was ND. Total xylenes, toluene and MTBE were detected at concentrations of 15, 8.7 and 390 µg/kg.	American Integrated, 2000	Request for closure submitted to LARWQCB

## Notes:

LARWQCB = Los Angeles Regional Water Quality Control Board

WCC = Woodward Clyde Consultants

T&amp;T = T&amp;T Environmental

(adj.) = adjacent to building

mg/kg = milligrams per kilogram

TPH = Total petroleum hydrocarbons

VOCs = Volatile organic compounds

MTBE = Methyl tertiary butyl ether

bgs = below ground surface

QA/QC by: \_\_\_\_\_

Date: \_\_\_\_\_

**Table 2**  
**Volatile Organic Compounds in Soil Vapor (µg/l)**

Boeing Realty Corporation Former C-6 Facility, Parcel C, Lot 7  
 Los Angeles, California

Vapor Point	Sample Name	Sample Depth (feet)	1,1,1,2-Tetrachloroethane	1,1,1-Trichloroethane	1,1,2,2-Tetrachloroethane	1,1,2-Trichloroethane	1,1,2,Trifluoroethane	Benzene	Carbon tetrachloride	Chloroethane	Chloroform	cis-1,2-Dichloroethene	Dichlorodifluoromethane	Ethylbenzene	meta- and para-Xylene	Methylene chloride	ortho-Xylene	Tetrachloroethene	Toluene	trans-1,2-Dichloroethene	Trichloroethene	Trichlorofluoromethane	Vinyl chloride
10	10 10'	10	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
11	11 10'	10	<1	<1	<b>2</b>	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
12	12 10'	10	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
B7	B7 10'	10	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
BLD32G8	BLD32G8 10'	10	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
C029S02	C029S02 10'	10	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
C029S03	C029S03 10'	10	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
C029S04	C029S04 10'	10	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
C209S01	C209S01 10'	10	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
E8	E8 10'	10	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
F12	F12 10'	10	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
G12	G12 10'	10	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
S7	S7 10'	10	<1	<1	<1	<1	<1	<1	<1	<1	<b>2</b>	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
SG C10	SG C10-10	10	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
SG C13	SG C13-10	10	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1

**Notes**

Soil vapor samples analyzed by the Well Investigation Protocol (WIP).  
 Concentrations reported in micrograms per liter (µg/l) of vapor.

**Bold** = Detected concentrations

< = Less than

**TABLE 3**  
**Volatile Organic Compounds in Soil ( $\mu\text{g}/\text{kg}$ )**  
**Boeing Reality Corporation Former C-6 Facility, Parcel C, Lot 7**  
**Los Angeles, California**

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**Volatile Organic Compounds in Soil ( $\mu\text{g/kg}$ )**  
**Boeing Realty Corporation Former C-6 Facility, Parcel C, Lot 7**  
**Los Angeles, California**

Object Name	Sample Name	Sample Depth (feet)	Naphthalene	n-Butylbenzene	n-Propylbenzene	o-Xylene	p-Isopropyltoluene	sec-Butylbenzene	Styrene	t-Butanol	Tert-amyl methyl ether	tert-Butylbenzene	Tetrachloroethene	Tetrahydrofuran	Toluene	trans-1,2-Dichloroethene	trans-1,3-Dichloropropene	Trichloroethene	Vinyl Acetate	Vinyl chloride	Xylenes (total)
BLDG-32-4-E-3	BLDG_32_4_E_3	1	<5	<5	<5	<5	<5	<5	<10	<100	<10	<5	15	<20	<5	150	<10	<10	<10	<5	
BLDG-32-4-E-4	BLDG_32_4_E_4	1	<5	<5	<5	<5	<5	<5	<10	<100	<10	<5	4.6J	<20	<5	120	<10	<10	<10	<5	
BLDG-32-4-E-5	BLDG_32_4_E_5	1	<5	<5	<5	<5	<5	<5	<10	<100	<10	<5	2.5	<20	<5	11	<10	<10	<10	<5	
BLDG-32-4-E-6	BLDG_32_4_E_6	1	<5	<5	<5	<5	<5	<5	<10	<100	<10	<5	2.5	<20	<5	6	<10	<10	<10	<5	
BUILD-20-J-17-1	Build-20-J-17-120400-1	1	<5	<5	<5	<5	<5	<5	<10	<100	<10	<5	3.8J	<20	<5	120	<10	<10	<10	86	
C-1-38	C-1-38-1	1	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<10	<5	2.5	<2.5	<5	2.5	<2.5	<2.5	<2.5	<2.5	
C-1-38	C-1-38-10	10	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<100	<10	<5	2.5	<2.5	<5	2.5	<2.5	<2.5	<2.5	
C-1-38	C-1-38-5	5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<100	<10	<5	2.5	<2.5	<5	2.5	<2.5	<2.5	<2.5	
C-1-43	C-1-43-20	20	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<100	<10	<5	2.5	<2.5	<5	2.5	<2.5	<2.5	<2.5	
C-1-43	C-1-43-24	24	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<100	<10	<5	2.5	<2.5	<5	2.5	<2.5	<2.5	<2.5	
C-1-56	C-1-56-10	10	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<100	<10	<5	2.5	<2.5	<5	2.5	<2.5	<2.5	<2.5	
C-1-56	C-1-56-15	15	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<100	<10	<5	2.5	<2.5	<5	2.5	<2.5	<2.5	<2.5	
C-1-56	C-1-56-5	5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<100	<10	<5	2.5	<2.5	<5	2.5	<2.5	<2.5	<2.5	
C-1-57	C-1-57-10	10	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<100	<10	<5	2.5	<2.5	<5	2.5	<2.5	<2.5	<2.5	
C-1-57	C-1-57-15	15	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<100	<10	<5	2.5	<2.5	<5	2.5	<2.5	<2.5	<2.5	
C-1-57	C-1-57-5	5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<100	<10	<5	2.5	<2.5	<5	2.5	<2.5	<2.5	<2.5	
C-1-58	C-1-58-10	10	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<100	<10	<5	2.5	<2.5	<5	2.5	<2.5	<2.5	<2.5	
C-1-58	C-1-58-15	15	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<100	<10	<5	2.5	<2.5	<5	2.5	<2.5	<2.5	<2.5	
C-1-58	C-1-58-5	5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<100	<10	<5	2.5	<2.5	<5	2.5	<2.5	<2.5	<2.5	
C-20-3	C-20-3-1	1	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<100	<10	<5	2.5	<2.5	<5	2.5	<2.5	<2.5	<2.5	
C-20-3	C-20-3-10	10	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<100	<10	<5	2.5	<2.5	<5	2.5	<2.5	<2.5	<2.5	
C-20-3	C-20-3-5	5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<100	<10	<5	2.5	<2.5	<5	2.5	<2.5	<2.5	<2.5	
C-20-4	C-20-4-10	10	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<100	<10	<5	2.5	<2.5	<5	2.5	<2.5	<2.5	<2.5	
C-20-4	C-20-4-15	15	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<100	<10	<5	2.5	<2.5	<5	2.5	<2.5	<2.5	<2.5	
C-20-4	C-20-4-5	5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<100	<10	<5	2.5	<2.5	<5	2.5	<2.5	<2.5	<2.5	
C-20-5	C-20-5-1	1	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<100	<10	<5	2.5	<2.5	<5	2.5	<2.5	<2.5	<2.5	
C-20-5	C-20-5-5	5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<100	<10	<5	2.5	<2.5	<5	2.5	<2.5	<2.5	<2.5	
C-20-6	C-20-6-1	1	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<100	<10	<5	2.5	<2.5	<5	2.5	<2.5	<2.5	<2.5	
C-20-6	C-20-6-5	5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<100	<10	<5	2.5	<2.5	<5	2.5	<2.5	<2.5	<2.5	
C-29-B-7	C_29_B_7_10	10	<5	<5	<5	<5	<5	<5	<5	<10	<100	<10	<5	2.5	<2.5	<5	2.5	<2.5	<2.5	<5	
C-29-B-7	C_29_B_7_5	5	<5	<5	<5	<5	<5	<5	<5	<10	<100	<10	<5	2.5	<2.5	<5	2.5	<2.5	<2.5	<5	
C-29-E-8	C-29-E-8-10	10	<5	<5	<5	<5	<5	<5	<5	<10	<100	<10	<5	2.5	<2.5	<5	2.5	<2.5	<2.5	<5	
C-29-E-8	C-29-E-8-5	5	<5	<5	<5	<5	<5	<5	<5	<10	<100	<10	<5	2.5	<2.5	<5	2.5	<2.5	<2.5	<5	
C-29-F-12	C-29-F-12-10	10	<5	<5	<5	<5	<5	<5	<5	<10	<100	<10	<5	2.5	<2.5	<5	2.5	<2.5	<2.5	<5	
C-29-F-12	C-29-F-12-5	5	<5	<5	<5	<5	<5	<5	<5	<10	<100	<10	<5	2.5	<2.5	<5	2.5	<2.5	<2.5	<5	
C29S01	C29S01_10	10	<5</																		

**TABLE 3**  
**Volatile Organic Compounds in Soil ( $\mu\text{g}/\text{kg}$ )**  
**Boeing Realty Corporation Former C-6 Facility, Parcel C, Lot 7**  
**Los Angeles, California**

Object Name	Sample Name	Sample Depth (feet)	Naphthalene	n-Butylbenzene	n-Propylbenzene	o-Xylene	p-Isopropyltoluene	sec-Butylbenzene	Styrene	t-Butanol	Tert-amyl methyl ether	Tert-butyl ethyl ether	tert-Butylbenzene	Tetrachloroethene	Toluene	trans-1,2-Dichloroethene	trans-1,3-Dichloropropene	Trichloroethene	Trichlorofluoromethane	Vinyl Acetate	Vinyl chloride	Xylenes (total)	
C-32-2	C-32-2-10	10	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	
C-32-2	C-32-2-5	5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	
C-32-3	C-32-3-1	1	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	
C-32-3	C-32-3-10	10	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	
C-32-3	C-32-3-5	5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	
C-32-4	C-32-4-1	1	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<b>79</b>	<2.5	<2.5	<b>2,100</b>	<2.5	<2.5	<2.5	<2.5	
C-32-4	C-32-4-10	10	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	
C-32-4	C-32-4-5	5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	
C-32-5	C-32-5-10'	10	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	
C-32-5	C-32-5-15	15	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	
C-32-5	C-32-5-20	20	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	
C-32-5	C-32-5-4'	4	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<b>7</b>	<2.5	<2.5	<b>41</b>	<2.5	<2.5	<2.5	<2.5	<2.5	
C-32-6	C-32-6-10	10	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	
C-32-6	C-32-6-15	15	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	
C-32-6	C-32-6-20	20	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	
C-32-7	C-32-7-10	10	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	
C-32-7	C-32-7-15	15	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	
C-32-7	C-32-7-20	20	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	
C-32-7	C-32-7-5	5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	
C-32-8	C-32-8-10	10	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<b>5</b>	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5
C-32-8	C-32-8-15	15	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	
C-32-8	C-32-8-20	20	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	
C-32-G-12	C-32-G-12-10	10	<5	<5	<5	<5	<5	<10	<5	<5	<20	<5	<5	<5	<5	<5	<10	<10	<10	<10	<10	<5	
C-32-G-12	C-32-G-12-5	5	<5	<5	<5	<5	<5	<10	<5	<5	<20	<5	<5	<5	<5	<5	<10	<10	<10	<10	<10	<5	
C-9	C-9-10	10	<5	<5	<5	<5	<5	<10	<5	<5	<20	<5	<5	<5	<5	<5	<10	<10	<10	<10	<10	<5	
C-9	C-9-15	15	<5	<5	<5	<5	<5	<10	<5	<5	<20	<5	<5	<5	<5	<5	<10	<10	<10	<10	<10	<5	
C-9	C-9-5	5	<5	<5	<5	<5	<5	<10	<5	<5	<20	<5	<5	<5	<5	<5	<10	<10	<10	<10	<10	<5	
G8	G8-10	10	<5	<5	<5	<5	<5	<10	<5	<5	<20	<5	<5	<5	<5	<5	<10	<10	<10	<10	<10	<5	
G8	G8-5	5	<5	<5	<5	<5	<5	<10	<5	<5	<20	<5	<5	<5	<5	<5	<10	<10	<10	<10	<10	<5	
WELL-2-OC1	WELL-2-OC1_P_0_072498_1	0	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5		

**Notes**

Soil samples analyzed by EPA Methods 8260, 8240, 8010, or 8020.

$\mu\text{g}/\text{kg}$  = micrograms per kilogram

Bold = Detected concentrations

< = Less than

**TABLE 4**  
**Inorganic Compounds in Soil Samples (mg/kg)**  
**Boeing Realty Corporation Former C-6 Facility, Parcel C, Lot 7**  
**Los Angeles, California**

Sample Name	Top Depth	Aluminum	Antimony	Arsenic	Barium	Beryllium	Cadmium	Chromium (Total)	Chromium (VI)	Cobalt	Copper	Lead	Mercury	Molybdenum	Nickel	Selenium	Silver	Thallium	Vanadium	Zinc	
2BB-5-10-1_P_1_042397_1	1	<5	<1	110	<0.1	25	<0.5	7	12	<1	<0.01	<0.5	11	<1	<0.1	<5	25	33			
2BB-5-10-1_P_1_050697_1	1	<5	<1	110	<0.1	21	<0.5	8	12	<1	<0.01	<0.5	10	<1	<0.1	<5	29	33			
2BB-5-10-10_P_10_042337_1	10	<5	<1	120	<0.1	20	<0.5	7	13	<1	<0.01	<0.5	14	<1	<0.1	<5	25	36			
2BB-5-10-10_P_10_050637_1	10	<5	<1	140	<0.1	29	<0.5	9	21	<1	<0.01	<0.5	16	<1	<0.1	<5	34	56			
2BB-5-10-4_P_4_042397_1	4	<5	<1	74	<0.1	18	<0.5	7	8	<1	<0.01	<0.5	10	<1	<0.1	<5	20	27			
2BB-5-10-4_P_4_050697_1	4	<5	<1	150	<0.1	20	<0.5	9	11	<1	<0.01	<0.5	13	<1	<0.1	<5	23	35			
2BB-5-11-1_P_1_042297_1	1	<5	<1	120	<0.1	24	<0.5	8	15	<1	<0.01	<0.5	13	<1	<0.1	<5	32	42			
2BB-5-11-10_P_10_042297_1	10	<5	<1	160	<0.1	36	<0.5	9	21	<1	<0.01	<0.5	17	<1	<0.1	<5	42	66			
2BB-5-11-15_P_15_042297_1	15	<5	<1	130	<0.1	28	<0.5	7	13	<1	<0.01	<0.5	11	<1	<0.1	<5	36	57			
2BB-5-11-20_P_20_042297_1	20	<5	<1	140	<0.1	32	<0.5	9	19	<1	<0.01	<0.5	13	<1	<0.1	<5	40	60			
2BB-5-11-25_P_25_042297_1	25	<5	<1	180	<0.1	46	<0.5	11	37	<1	<0.01	<0.5	21	<1	<0.1	<5	52	86			
2BB-5-11-4_P_4_042297_1	4	<5	<1	120	<0.1	29	<0.5	9	13	<1	<0.01	<0.5	13	<1	<0.1	<5	28	41			
2BB-5-13-10_P_10_042297_1	10	<5	<1	110	<0.1	34	<0.5	9	19	<1	<0.01	<0.5	18	<1	<0.1	<5	38	55			
2BB-5-19-15_P_15_042297_1	15	<5	<1	130	<0.1	30	<0.5	8	18	<1	<0.01	<0.5	13	<1	<0.1	<5	34	56			
2BB-5-19-20_P_20_042297_1	20	<5	<1	130	<0.1	30	<0.5	8	19	<1	<0.01	<0.5	13	<1	<0.1	<5	38	56			
2BB-5-19-25_P_25_042297_1	25	<5	<1	200	<0.1	50	<0.5	12	39	<1	<0.01	<0.5	26	<1	<0.1	<5	66	88			
2BB-5-19-4_P_4_042297_1	4	<5	<1	83	<0.1	23	<0.5	7	10	<1	<0.01	<0.5	10	<1	<0.1	<5	22	33			
2BB-5-20-1_P_1_041797_1	1	<5	<1	170	61	<0.1	7	18	<0.5	8	15	<1	21	<1	<0.1	<5	29	36			
2BB-5-20-10_P_10_041797_1	10	<5	<1	150	<0.1	26	<0.5	9	16	<1	<0.01	<0.5	14	<1	<0.1	<5	30	45			
2BB-5-20-20_P_20_041797_1	20	<5	<1	130	<0.1	29	<0.5	8	16	<1	<0.01	<0.5	14	<1	<0.1	<5	36	56			
2BB-5-20-30_P_30_041797_1	30	<5	<1	56	<0.1	15	<0.5	4	8	<1	<0.01	<0.5	7	<1	<0.1	<5	17	27			
2BB-5-20-4_P_4_041797_1	4	<5	<1	140	<0.1	23	<0.5	8	14	<1	<0.01	<0.5	13	<1	<0.1	<5	38	47			
2BB-5-20-40_P_40_041797_1	40	<5	<1	70	<0.1	6	<0.5	4	5	<1	<0.01	<0.5	5	<1	<0.1	<5	12	10			
2BB-5-20-50_P_50_041797_1	50	<5	<1	110	<0.1	59	<0.5	7	29	<1	<0.01	<0.5	15	<1	<0.1	<5	58	56			
2BB-5-21_P_1_041897_1	1	<5	<1	150	<0.1	30	<0.5	9	15	<1	<0.01	<0.5	15	<1	<0.1	<5	31	63			
2BB-5-2-10_P_10_041897_1	10	<5	<1	170	<0.1	41	<0.5	9	24	<1	<0.01	<0.5	20	<1	<0.1	<5	42	70			
2BB-5-23-1_P_1_041197_1	1	<5	<1	80	<0.1	19	<0.5	7	15	<1	<0.01	<0.5	11	<1	<0.1	<5	24	36			
2BB-5-23-10_P_10_041197_1	10	<5	<1	100	<0.1	27	<0.5	8	18	<1	<0.01	<0.5	14	<1	<0.1	<5	28	47			
2BB-5-23-15_P_15_041197_1	15	<5	<1	94	<0.1	22	<0.5	6	11	<1	<0.01	<0.5	10	<1	<0.1	<5	24	39			
2BB-5-23-20_P_20_041197_1	20	<5	<1	110	<0.1	23	<0.5	6	15	<1	<0.01	<0.5	10	<1	<0.1	<5	27	43			
2BB-5-23-25_P_25_041197_1	25	<5	<1	160	<0.1	33	<0.5	9	24	<1	<0.01	<0.5	17	<1	<0.1	<5	30	63			
2BB-5-23-4_P_4_041197_1	4	<5	<1	82	<0.1	23	<0.5	7	8	<1	<0.01	<0.5	12	<1	<0.1	<5	27	31			
2BB-5-24_P_4_041897_1	4	<5	<1	170	<0.1	28	<0.5	8	10	<1	<0.01	<0.5	14	<1	<0.1	<5	28	43			
Bldg_32_2_BB_5_20_11	1			155																	
Bldg_32_2_BB_5_20_12	1			5																	
BUILD_20_L_23_032101_2	9	14,500	<6	11	207	0.45B	1	28	9	22	11	0.05B	5	22	<0.5	<1	0.67B	58	63		
BUILD_20_L_23_032101_6	4	25,300	<6	4	174	1	<0.5	30	12	26	7	0.03B	1B	21	<0.5	<1	1	59	66		
Build_20_L_23_051101_9	7	25,200	<6	4	176	1	<0.5	29	14	25	6	<0.1	<4	22	<0.5	<1	0.86B	57	66		
BUILD_20_M_23_032101_1	4	7,000	<6	3	67	0.22B	<0.5	13	2.9B	7	2	0.022B	1.3B	11	1	<1	<1	21	24		
BUILD_20_M_23_032101_3	4	24,600	<6	4	196	1	<0.5	29	13	28	12	0.044B	0.53B	21	<0.5	<1	2	56	71		
BUILD_20_M_23_032101_4	4	7,750	<6	3	185	0.25B	0.46B	16	4.9B	16	3	<0.1	1.3B	13	<0.5	<1	<1	34	40		
BUILD_20_M_23_032101_5	4	22,600	<6	5	162	1	0.11B	29	12	31	9	0.027B	1.2B	22	<0.5	<1	1	61	76		
BUILD_20_M_23_032201_7	7	17,300	<6	11	174	1	1	40	<0.1	12	26	9	0.024B	2.8B	22	<0.5	<1	<1	69	71	
BUILD_20_M_23_050301_9	6	23,500	1.1B	6	176	1	1	28	11	29	6	0.031B	1.3B	21	<0.5	<1	2	61	69		
BUILD_32_2_BB_5_20_1	1			21																	
BUILD_32_2_BB_5_20_2	1			26																	
BUILD_32_2_BB_5_20_3	1			26																	
BUILD_32_2_BB_5_20_4	1			12																	
BUILD_32_2_BB_5_20_5	1			7																	
BUILD_32_2_BB_5_20_6	1			5																	
BUILD_32_2_BB_5_20_7	1			5																	
BUILD_32_2_BB_5_20_8	1			4																	
BUILD_32_2_BB_5_20_9	1			5																	
BUILD_32_2_BB_5_20_10	1			21																	
G_29_B_7_10	10	26,700	0.47B	6	209	1	1	33	13	32	7	0.033B	1.3B	26	<0.5	<1	1	69	80		
G_29_B_7_5	5	27,400	0.27B	3	171	1	1	29	12	20	6	<0.1	1.1B	21	<0.5	<1	0.74B	55	57		
G_29_E_8_10	10							<0.1													

**TABLE 4**  
**Inorganic Compounds in Soil Samples (mg/kg)**  
**Boeing Realty Corporation Former C-6 Facility, Parcel C, Lot 7**  
**Los Angeles, California**

Sample Name	Top Depth	Chromium					Chromium										Zinc		
		Aluminum	Antimony	Arsenic	Barium	Beryllium	Cadmium	(Total)	(VI)	Cobalt	Copper	Lead	Mercury	Molybdenum	Nickel	Selenium	Silver	Thallium	Vanadium
C-1-38-1	1	<5	2	80	1	<0.5	25	10	15	7	<0.1	<1	14	<5	<0.5	<5	<5	51	
C-1-38-10	10	<5	4	130	1	<0.5	27	11	28	6	<0.1	<1	16	<5	<0.5	<5	<5	46	
C-1-38-5	5	<5	4	110	1	<0.5	22	10	20	7	<0.1	<1	17	<5	<0.5	<5	<5	48	
C-1-43-20	20	<5	2	150	1	<0.5	22	10	29	8	<0.1	<1	13	<5	<0.5	<5	11	19	
C-1-43-24	24	<5	3	140	1	<0.5	20	10	18	7	<0.1	<1	13	<5	<0.5	<5	49	55	
C-1-56-10	10	<5	3	130	1	<0.5	21	8	21	6	<0.1	<1	15	<5	<0.5	<5	42	53	
C-1-56-15	15	<5	4	150	1	<0.5	24	10	28	6	<0.1	<1	19	<5	<0.5	<5	51	60	
C-1-56-5	5	<5	3	110	1	<0.5	23	14	18	5	<0.1	<1	15	<5	1	<5	48	53	
C-1-57-10	10	<5	3	130	1	<0.5	27	10	28	7	<0.1	<1	22	<5	1	<5	51	75	
C-1-57-15	15	<5	3	100	<0.5	<0.5	21	8	25	6	<0.1	<1	16	<5	<0.5	<5	43	53	
C-1-57-5	5	<5	3	130	1	<0.5	20	11	21	6	<0.1	<1	14	<5	<0.5	<5	42	53	
C-1-58-10	10	<5	2	110	<0.5	<0.5	18	8	20	7	<0.1	<1	22	<5	1	<5	51	75	
C-1-58-15	15	<5	4	110	1	<0.5	23	9	31	6	<0.1	<1	20	<5	<0.5	<5	46	63	
C-1-58-5	5	<5	3	130	1	<0.5	22	13	18	6	<0.1	<1	11	<5	<0.5	<5	42	58	
C-20-2-1	1	<5	2	130	1	<0.5	21	10	27	6	<0.1	<1	16	<5	<0.5	<5	45	66	
C-20-2-5	5	<5	2	180	1	<0.5	21	10	17	6	<0.1	<1	15	<5	<0.5	<5	37	45	
C-20-5-1	1	<5	4	150	1	<0.5	24	11	27	18	<0.1	<1	18	<5	<0.5	<5	49	67	
C-20-5-5	5	<5	3	220	1	<0.5	23	14	19	9	<0.1	<1	16	<5	<0.5	<5	45	62	
C-20-6-1	1	<5	3	170	1	<0.5	25	11	26	10	<0.1	<1	18	<5	<0.5	<5	49	60	
C-20-6-5	5	<5	3	180	1	<0.5	14	12	25	9	<0.1	<1	17	<5	<0.5	<5	52	53	
C-29-E-8-10	10	31,300	2.5B	6	194	1	1	38	14	36	8	0.045B	2.4B	30	<5	<1	2	73	78
C-29-E-9-5	5	29,600	2.6B	5	188	1	0.37B	30	12	22	9	0.043B	1.2B	22	<5	<1	0.57B	60	64
C-29-F-12-10	10	33,200	2.4B	6	206	1	1	35	16	33	8	0.043B	1.6B	27	<5	<1	2	76	78
C-29-F-12-5	5	28,800	1.2B	4	236	1	0.32B	28	12	18	6	0.041B	0.67B	22	<5	<1	0.6B	54	50
C-32-1-1	1	<5	5	120	1	1	20	3	17	7	0	2	14	<5	<0.5	<5	40	50	
C-32-1-5	5	<5	5	130	1	1	25	10	22	9	1	4	17	<5	<0.5	<5	46	64	
C-32-2-10	10	<5	4	130	1	<0.5	25	12	33	7	<0.1	<1	21	<5	<0.5	<5	56	70	
C-32-2-5	5	<5	5	130	1	1	25	10	22	9	1	4	17	<5	<0.5	<5	46	64	
C-32-3-1	1	<5	4	63	<0.5	4	24	6	31	5	<0.1	12	31	<5	<0.5	<5	79	55	
C-32-3-10	10	<5	4	150	1	<0.5	21	3	49	6	<0.1	<1	16	<5	<0.5	<5	47	60	
C-32-3-5	5	<5	5	320	1	<0.5	43	19	40	12	<0.1	<1	32	<5	<0.5	<5	95	110	
C-32-4-1	1	<5	4	96	<0.5	<0.5	35	7	33	23	<0.1	5	15	<5	<0.5	<5	33	46	
C-32-4-10	10	<5	4	850	<0.5	1	19	8	24	5	<0.1	<1	14	<5	<0.5	<5	43	51	
C-32-4-5	5	<5	3	160	1	<0.5	18	8	16	6	<0.1	<1	13	<5	<0.5	<5	43	50	
C-32-5-10'	10	<5	4	160	1	<0.5	27	12	34	7	<0.1	<1	22	<5	<0.5	<5	58	72	
C-32-5-15	15	<5	3	110	<0.5	<0.5	19	9	19	5	<0.1	<1	12	<5	<0.5	<5	43	60	
C-32-5-20	20	<5	3	170	1	<0.5	20	9	26	6	<0.1	<1	15	<5	<0.5	<5	45	62	
C-32-5-4'	4	<5	3	130	1	<0.5	22	8	16	6	<0.1	<1	16	<5	<0.5	<5	43	48	
C-32-6-10	10	<5	4	150	1	<0.5	24	11	30	7	<0.1	<1	18	<5	<0.5	<5	50	63	
C-32-6-15	15	<5	3	88	<0.5	<0.5	16	7	20	5	<0.1	<1	13	<5	<0.5	<5	36	45	
C-32-6-20	20	<5	4	130	1	<0.5	22	10	28	6	<0.1	<1	18	<5	<0.5	<5	50	64	
C-32-7-10	10	<5	3	120	1	<0.5	26	12	35	7	<0.1	<1	21	<5	<0.5	<5	53	78	
C-32-7-15	15	<5	3	88	<0.5	<0.5	16	7	20	5	<0.1	<1	13	<5	<0.5	<5	36	45	
C-32-7-20	20	<5	2	160	1	<0.5	23	11	29	6	<0.1	<1	18	<5	<0.5	<5	50	64	
C-32-7-5	5	<5	2	200	1	1	24	13	29	6	<0.1	<1	13	<5	<0.5	<5	36	72	
C-32-8-10	10	<5	2	110	1	<0.5	26	10	30	6	<0.1	<1	19	<5	<0.5	<5	44	70	
C-32-8-15	15	<5	2	130	1	<0.5	21	10	27	6	<0.1	<1	16	<5	<0.5	<5	45	66	
C-32-8-20	20	<5	2	130	1	<0.5	24	9	25	5	<0.1	<1	15	<5	<0.5	<5	41	60	
C-32-9-1	1	<5	4	110	<0.5	<0.5	17	9	20	13	<0.1	<1	11	<5	<0.5	<5	33	42	
C-32-9-10	10	<5	2	130	1	<0.5	21	10	27	6	<0.1	<1	16	<5	<0.5	<5	45	66	
C-32-9-15	15	<5	2	150	1	<0.5	21	10	26	6	<0.1	<1	15	<5	<0.5	<5	48	69	
C-32-9-20	20	<5	3	140	1	<0.5	19	9	25	5	<0.1	<1	14	<5	<0.5	<5	44	59	
C-32-9-5	5	<5	3	150	1	<0.5	24	10	30	6	<0.1	<1	19	<5	<0.5	<5	44	70	
C-32-G-12-10	10	29,000	2.1B	7	220	1	0.49B	32	13	33	7	0.043B	1.9B	25	<5	<1	2	67	71
C-32-G-12-5	5	33,000	1.8B	4	133	1	0.28B	33	10	20	7	0.058B	1.5B	21	<5	<1	<1	64	59
C32S01_10	10	30,000	0.38B	5	142	1	1	38	14	39	7	0.035B	1.6B	28	<5	<1	2	74	84
C32S01_5	5	34,300	0.53B	5	175	1	1	34	17	25	7	0.035B	1.4B	23	<5	<1	2	67	80

**TABLE 4**  
**Inorganic Compounds in Soil Samples (mg/kg)**  
**Boeing Realty Corporation Former C-6 Facility, Parcel C, Lot 7**  
**Los Angeles, California**

Sample Name	Top Depth	Aluminum	Antimony	Arsenic	Barium	Beryllium	Cadmium	Chromium (Total)	Chromium (VI)	Cobalt	Copper	Lead	Mercury	Molybdenum	Nickel	Selenium	Silver	Thallium	Vanadium	Zinc	
G-9-10	10	31,800	0.93B	8	244	1	0.28B	38	<0.1	17	42	8	0.03B	3.6B	31	<0.5	<1	2	81	91	
G-9-15	15	23,800	0.45B	4	203	1	0.24B	26		11	27	5	0.053B	1.5B	19	<0.5	<1	1	57	69	
G-9-5	5	34,000	0.9B	7	273	1	0.27B	43	<0.1	16	38	6	0.031B	2.3B	32	<0.5	<1	2	84	86	
G8-10	10	28,500	<6	5	176	1	1	34		13	38	7	0.038B	1.5B	25	<0.5	<1	2	69	84	
G8-5	5	34,700	<6	5	141	1	1	37		11	22	7	0.07B	1B	33	<0.5	<1	0.84B	70	67	
PD_83_1	1				5																
PD_83_3	3					4															
PD_84_1	1					9															
PD_84_3	3						4														
PD_85_1	1						3														
PD_85_3	3						3														
PD_86_1	1					12															
PD_86_3	3					5															
PD_87_1	1						4														
PD_87_3	3						3														
PD_88_1	1						4														
PD_88_3	3						3														
PD_89_1	1						19														
PD_89_3	3						3														
PD_90_1	1							3													
PD_90_3	3							5													
PD_91_1	1							18													
PD_91_3	3							4													
PD_92_1	1							6													
PD_92_3	3						10														
PD_93_1	1							5													
PD_93_3	3							5													
PD_94_1	1							6													
PD_94_3	3							13													
PD_95_1	1							7													
PD_95_3	3							10													
WELL-2-C01_P_0_072498_1	0	<5			5	21	<0.1	<0.1	11	<0.5	3	93	9	<0.01	<0.5	25	<1	<0.1	<5	9	63

**Notes**

mg/kg = milligrams per kilogram

B = Estimated concentration

Blank = Sample not analyzed

< = Less than

Samples analyzed by EPA Method 6010, 7471, or 7196.

**TABLE 5**  
**Total Petroleum Hydrocarbons in Soil (mg/kg)**  
 Boeing Realty Corporation Former C-6 Facility, Parcel C, Lot 7  
 Los Angeles, California

## Notes

mg/kg = milligrams per kilogram

J = Estimated concentration

**Bold** = Detected concentrations

Blank = Sample not analyzed

< = Less than

Samples analyzed by EPA Method 8015

**TABLE 6**  
**Total Recoverable Petroleum Hydrocarbons in Soil Samples in mg/kg**  
 Boeing Realty Corporation  
 Parcel C of the former C-6 Facility, Los Angeles, California

Object Name	Sample Name	Sample Depth (feet)	TRPH
2BB-5-10	2BB-5-10-1_P_1_042397_1	1	<10
2BB-5-10	2BB-5-10-1_P_1_050697_1	1	<b>32</b>
2BB-5-10	2BB-5-10-10_P_10_042397_1	10	<10
2BB-5-10	2BB-5-10-10_P_10_050697_1	10	<8
2BB-5-10	2BB-5-10-4_P_4_042397_1	4	<10
2BB-5-10	2BB-5-10-4_P_4_050697_1	4	<b>20</b>
2BB-5-11	2BB-5-11-1_P_1_042297_1	1	<10
2BB-5-11	2BB-5-11-10_P_10_042297_1	10	<10
2BB-5-11	2BB-5-11-15_P_15_042297_1	15	<10
2BB-5-11	2BB-5-11-20_P_20_042297_1	20	<10
2BB-5-11	2BB-5-11-25_P_25_042297_1	25	<10
2BB-5-11	2BB-5-11-4_P_4_042297_1	4	<10
2BB-5-12	2BB-5-12-1_P_1_042397_1	1	<10
2BB-5-12	2BB-5-12-1_P_1_050697_1	1	<b>22</b>
2BB-5-12	2BB-5-12-10_P_10_042397_1	10	<10
2BB-5-12	2BB-5-12-10_P_10_050697_1	10	<b>26</b>
2BB-5-12	2BB-5-12-15_P_15_050697_1	15	<8
2BB-5-12	2BB-5-12-20_P_20_050697_1	20	<b>23</b>
2BB-5-12	2BB-5-12-25_P_25_050697_1	25	<8
2BB-5-12	2BB-5-12-4_P_4_042397_1	4	<10
2BB-5-12	2BB-5-12-4_P_4_050697_1	4	<8
2BB-5-13	2BB-5-13-1_P_1_042297_1	1	<b>1,700</b>
2BB-5-13	2BB-5-13-10_P_10_042297_1	10	<10
2BB-5-13	2BB-5-13-15_P_15_042297_1	15	<b>14</b>
2BB-5-13	2BB-5-13-20_P_20_042297_1	20	<10
2BB-5-13	2BB-5-13-25_P_25_042297_1	25	<10
2BB-5-13	2BB-5-13-4_P_4_042297_1	4	<10
2BB-5-14	2BB-5-14-1**_P_1_042297_1	1	<b>75</b>
2BB-5-14	2BB-5-14-10_P_10_042297_1	10	<10
2BB-5-14	2BB-5-14-15_P_15_042297_1	15	<10
2BB-5-14	2BB-5-14-20_P_20_042297_1	20	<10
2BB-5-14	2BB-5-14-25_P_25_042297_1	25	<10
2BB-5-14	2BB-5-14-4_P_4_042297_1	4	<10
2BB-5-18	2BB-5-18-10_P_10_042197_1	10	<10
2BB-5-18	2BB-5-18-15_P_15_042197_1	15	<10
2BB-5-18	2BB-5-18-20_P_20_042197_1	20	<10
2BB-5-18	2BB-5-18-25_P_25_042197_1	25	<10
2BB-5-18	2BB-5-18-5_P_5_042197_1	5	<10
2BB-5-19	2BB-5-19-10_P_10_042297_1	10	<10
2BB-5-19	2BB-5-19-15_P_15_042297_1	15	<10
2BB-5-19	2BB-5-19-20_P_20_042297_1	20	<10

**TABLE 6**  
**Total Recoverable Petroleum Hydrocarbons in Soil Samples in mg/kg**  
 Boeing Realty Corporation  
 Parcel C of the former C-6 Facility, Los Angeles, California

Object Name	Sample Name	Sample Depth (feet)	TRPH
2BB-5-19	2BB-5-19-25_P_25_042297_1	25	<10
2BB-5-19	2BB-5-19-4_P_4_042297_1	4	<b>190</b>
2BB-5-2	2BB-5-2-1_P_1_041897_1	1	<b>15</b>
2BB-5-2	2BB-5-2-10_P_10_041897_1	10	<10
2BB-5-2	2BB-5-2-4_P_4_041897_1	4	<10
2BB-5-20	2BB-5-20-1_P_1_041797_1	1	<b>9,100</b>
2BB-5-20	2BB-5-20-10_P_10_041797_1	10	<b>10</b>
2BB-5-20	2BB-5-20-20_P_20_041797_1	20	<10
2BB-5-20	2BB-5-20-30_P_30_041797_1	30	<b>15</b>
2BB-5-20	2BB-5-20-4_P_4_041797_1	4	<b>11</b>
2BB-5-20	2BB-5-20-40_P_40_041797_1	40	<10
2BB-5-20	2BB-5-20-50_P_50_041797_1	50	<10
2BB-5-23	2BB-5-23-15_P_15_041197_1	15	<b>22</b>
B-13B-FS	13B_P_10_040496_1	10	<10
B-13B-FS	13B_P_15_040496_1	15	<10
B-13B-FS	13B_P_20_040496_1	20	<10
B-13B-FS	13B_P_25_040496_1	25	<10
B-13B-FS	13B_P_5_040496_1	5	<10
B-14B	14_P_10_040196_1	10	<10
B-14B	14_P_5_040196_1	5	<10

**Notes**

mg/kg = milligrams per kilogram

Bold = Detected concentrations

< = Less than

Samples analyzed by EPA Method 418.1

**TABLE 7**  
**Semi-Volatile Organic Compounds in Soil ( $\mu\text{g}/\text{kg}$ )**  
 Boeing Realty Corporation Former C-6 Facility, Parcel C,  
 Los Angeles, California

**TABLE 7**  
**Semi-Volatile Organic Compounds in Soil ( $\mu\text{g}/\text{kg}$ )**  
 Boeing Realty Corporation Former C-6 Facility, Parcel C, L  
 Los Angeles, California

**Notes**  
µg/kg = micrograms per kilogram  
J = Estimated concentration  
Detected concentrations are bolded  
< = Less than  
Blank = Sample not analyzed  
Samples analyzed by EPA Method

Blank = Sample not analyzed  
Samples analyzed by EPA Method 827

**TABLE 8**  
**Polyaromatic Hydrocarbon Compounds in Soil (µg/kg)**  
**Boeing Realty Corporation Former C-6 Facility, Parcel C, Lot 7**  
**Los Angeles, California**

Object Name	Sample Name	Sample Depth (feet)	Acenaphthene	Acenaphthylene	Anthracene	Benzo(a)anthracene	Benzo(a)pyrene	Benzo(b)fluoranthene	Benzo(ghi)perylene	Benzo(k)fluoranthene	Chrysene	Dibenz(a,h)anthracene	Fluoranthene	Fluorene	Indeno(1,2,3-cd)pyrene	Naphthalene	Phenanthrene	Pyrene
BUILD-20-M-23-1	BUILD_20_M_23_032101_1	4	<40000	<20000	<800	<1600	<1000	610	<1600	<400	<2000	<4000	<2000	<4000	<2000	<20000	<3500	1700J
BUILD-20-L-23-10	Build_20_L_23_052301_10	10	<1000	<1000	<40	<b>21J</b>	<40	<b>14J</b>	<b>16J</b>	<b>4.6J</b>	<b>23J</b>	<b>25J</b>	<b>16J</b>	<100	<b>8.5J</b>	<400	<100	<b>8.7J</b>
BUILD-20-L-23-2	BUILD_20_L_23_032101_2	9	<4000	<2000	<80	<160	<100	78	<160	<b>30J</b>	<200	<400	<b>200</b>	<400	<200	<2000	<b>230</b>	<b>170J</b>
BUILD-20-M-23-7	BUILD_20_M_23_032201_7	7	<40000	<20000	<b>3,200</b>	<1600	<1000	<b>1,000</b>	<1600	<b>600</b>	<2000	<4000	<2000	<4000	<2000	<20000	<b>18,000</b>	<4000

**Notes**

µg/kg = micrograms per kilogram

J = Estimated concentration

Bold = Detected concentrations

< = Less than

Samples analyzed by EPA Method 8310.

**TABLE 9**  
**Polychlorinated Biphenyls (PCBs) in µg/kg**  
**Boeing Realty Corporation Former C-6 Facility, Parcel C , Lot 7**  
**Los Angeles, California**

Object Name	Sample Name	Sample Depth (feet)	Aroclor 1016	Aroclor 1221	Aroclor 1232	Aroclor 1242	Aroclor 1248	Aroclor 1254	Aroclor 1260
2BB-5-12	2BB-5-12-1_P_1_050697_1	1	<20	<20	<20	<20	<20	<20	<20
2BB-5-12	2BB-5-12-10_P_10_050697_1	10	<20	<20	<20	<20	<20	<20	<20
2BB-5-12	2BB-5-12-15_P_15_050697_1	15	<20	<20	<20	<20	<20	<20	<20
2BB-5-12	2BB-5-12-20_P_20_050697_1	20	<20	<20	<20	<20	<20	<20	<20
2BB-5-12	2BB-5-12-25_P_25_050697_1	25	<20	<20	<20	<20	<20	<20	<20
2BB-5-12	2BB-5-12-4_P_4_050697_1	4	<20	<20	<20	<20	<20	<20	<20
2BB-5-13	2BB-5-13-1_P_1_042297_1	1	<20	<20	<20	<20	<20	<20	<20
2BB-5-13	2BB-5-13-10_P_10_042297_1	10	<20	<20	<20	<20	<20	<20	<20
2BB-5-13	2BB-5-13-15_P_15_042297_1	15	<20	<20	<20	<20	<20	<20	<20
2BB-5-13	2BB-5-13-20_P_20_042297_1	20	<20	<20	<20	<20	<20	<20	<20
2BB-5-13	2BB-5-13-25_P_25_042297_1	25	<20	<20	<20	<20	<20	<20	<20
2BB-5-13	2BB-5-13-4_P_4_042297_1	4	<20	<20	<20	<20	<20	<20	<20
2BB-5-14	2BB-5-14-1_P_1_042297_1	1	<20	<20	<20	<20	<20	<20	<b>100</b>
2BB-5-14	2BB-5-14-10_P_10_042297_1	10	<20	<20	<20	<20	<20	<20	<20
2BB-5-14	2BB-5-14-15_P_15_042297_1	15	<20	<20	<20	<20	<20	<20	<20
2BB-5-14	2BB-5-14-20_P_20_042297_1	20	<20	<20	<20	<20	<20	<20	<20
2BB-5-14	2BB-5-14-25_P_25_042297_1	25	<20	<20	<20	<20	<20	<20	<20
2BB-5-14	2BB-5-14-4_P_4_042297_1	4	<20	<20	<20	<20	<20	<20	<b>160</b>
BUILD-20-L-23-10	Build_20_L_23_052301_10	10	<33	<33	<33	<33	<b>110</b>	<33	<b>250</b>
BUILD-20-L-23-2	BUILD_20_L_23_032101_2	9	<33	<33	<33	<b>32J</b>	<33	<33	<33
BUILD-20-L-23-9	Build_20_L_23_051101_9	7	<33	<33	<33	<33	<33	<33	<33
BUILD-20-M-23-1	BUILD_20_M_23_032101_1	4	<33	<33	<33	<b>16J</b>	<33	<33	<33
BUILD-20-M-23-7	BUILD_20_M_23_032201_7	7	<33	<33	<33	<b>90</b>	<33	<b>14J</b>	<33
C-1-37	C-1-37-1	1	<50	<50	<50	<50	<50	<50	<50

#### Notes

µg/kg = micrograms per kilogram

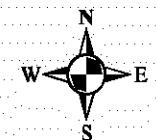
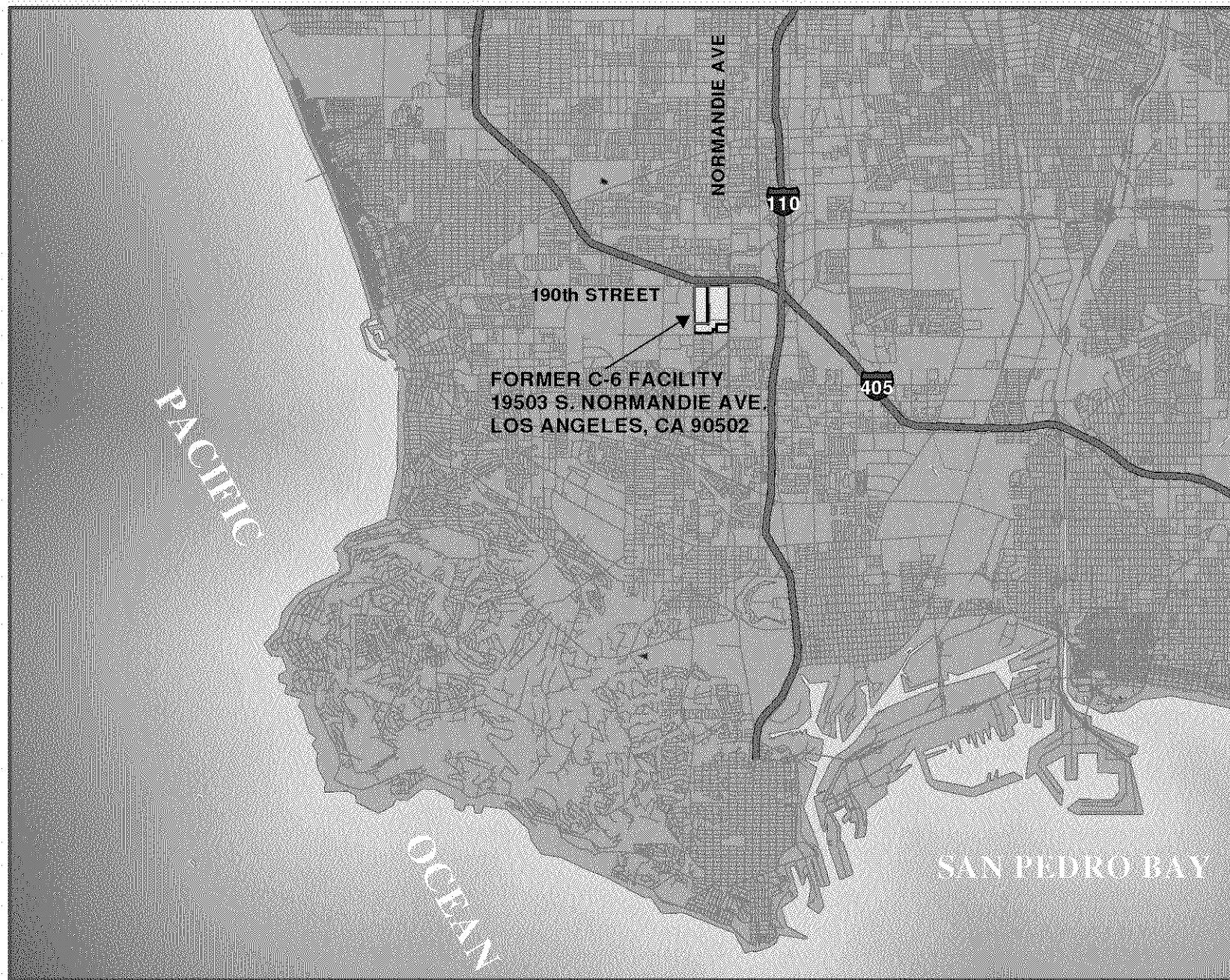
J = Estimated concentration

**Bold** = Detected concentrations

< = Less than

Samples analyzed by EPA Method 8080 or 8082.

## **FIGURES**



0 0.5 1 2 3  
Miles

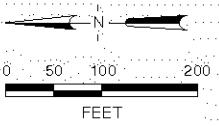
**Figure 1**  
**Site Location Map**

Boeing Realty Corporation  
Former C-6 Facility  
Los Angeles, California

**HALEY & ALDRICH** UNDERGROUND ENGINEERING &  
ENVIRONMENTAL SOLUTIONS

Scale : As Shown QA/QC : Project : 27285

Drawn : DFM Reviewed : SP2 Date : 1 March 2002



SOURCE OF BASE MAP: KENNEDY JENKS CONSULTANTS, 2000. SAMPLING AND ANALYSIS PLAN, BOEING REALTY CORPORATION'S C-6 FACILITY - PARCEL C, LOS ANGELES, CALIFORNIA, AUGUST 16, 2000  
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#### LEGEND

- PARCEL C BOUNDARY
- PARCEL BOUNDARY OTHER THAN C
- PARCEL C BUILDING OUTLINE
- LOT 7 OUTLINE



UNDERGROUND  
ENGINEERING &  
ENVIRONMENTAL  
SOLUTIONS

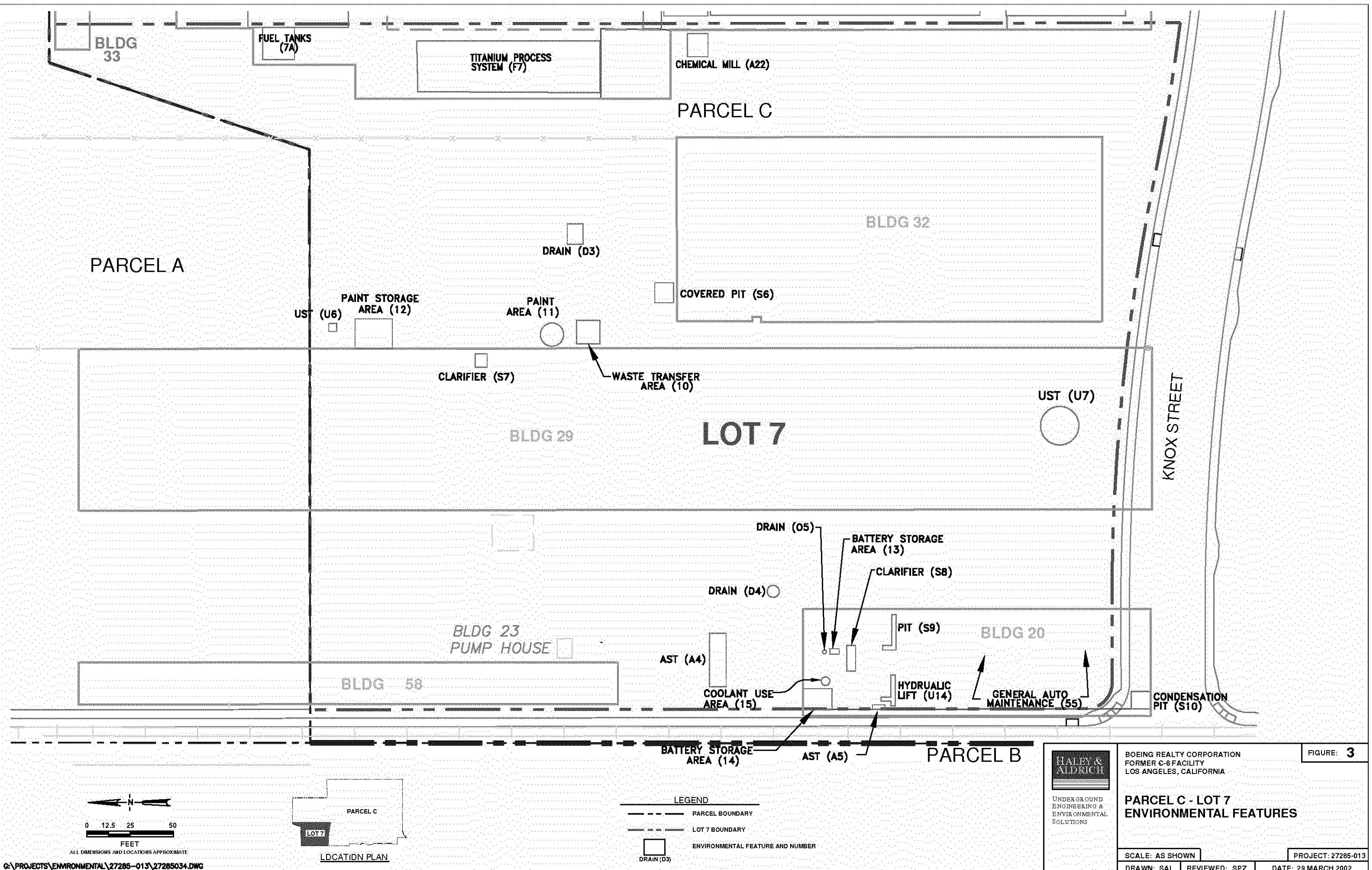
BOEING REALTY CORPORATION  
FORMER C-6 FACILITY  
LOS ANGELES, CALIFORNIA

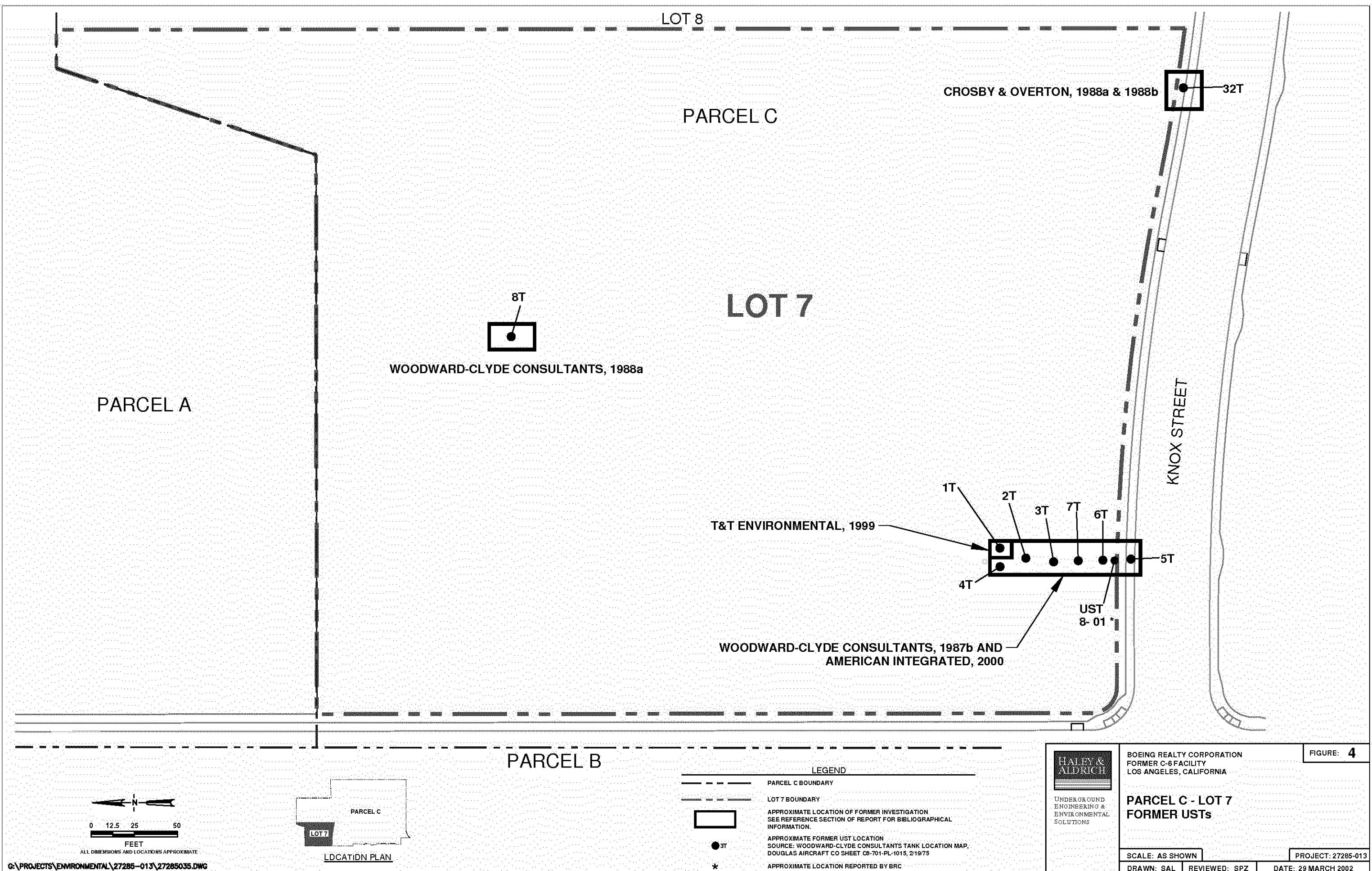
#### FORMER C-6 FACILITY PLAN SHOWING LOT 7

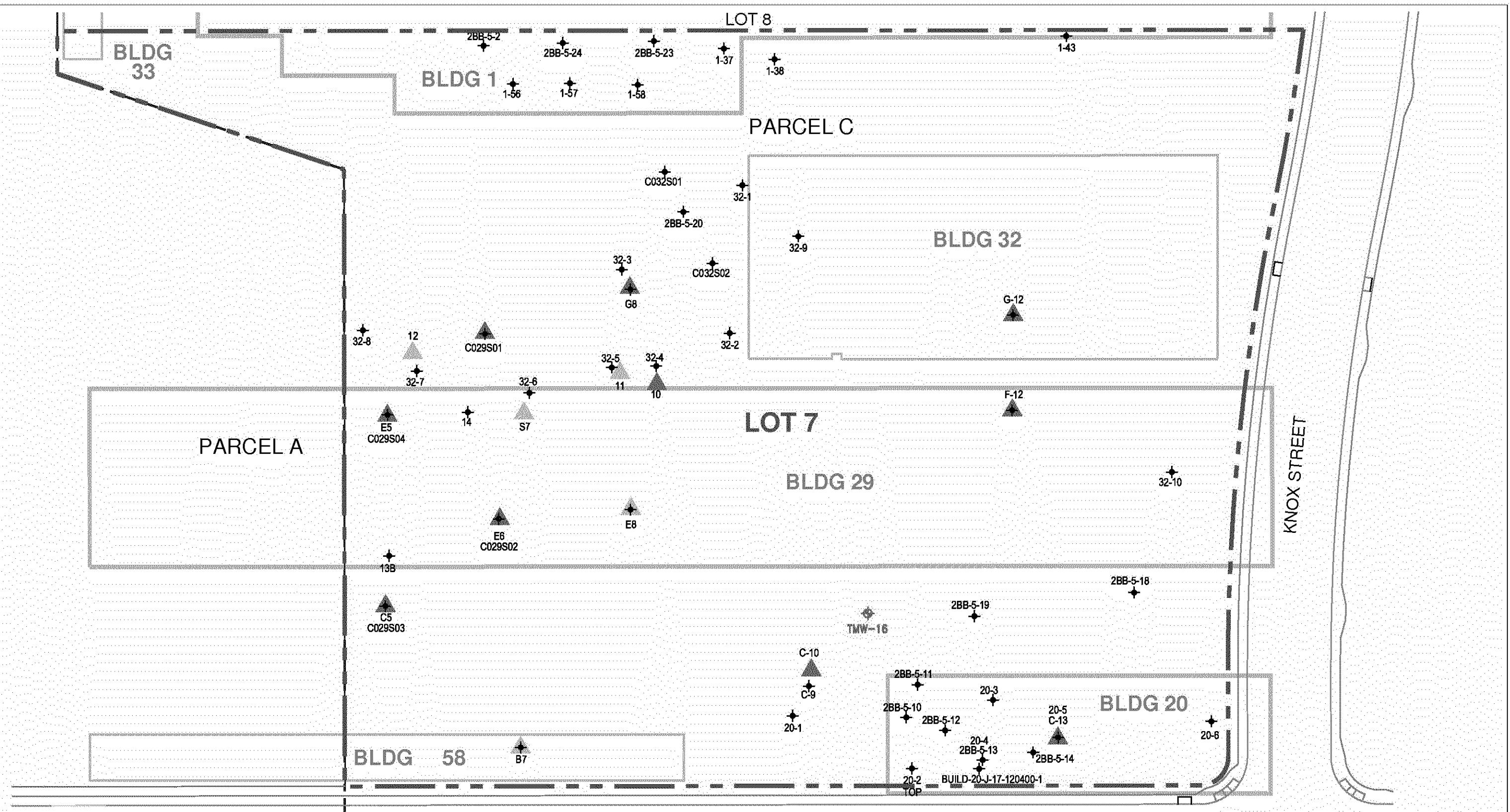
SCALE: AS SHOWN QA/QC: BB PROJECT: 27285-01:  
DRAWN: SAL REVIEWED: BAB DATE: 29 MARCH 2002

FIGURE: 2

BOE-C6-0002332







**FIGURE: 5**

**LOCATION PLAN:**

0 12.5 25 50 FEET  
ALL DIMENSIONS AND LOCATIONS APPROXIMATE

**LEGEND:**

- SOIL GAS TOTAL VOC CONCENTRATION NON-DETECTABLE
- SOIL GAS TOTAL VOC CONCENTRATION 1-10 ug/L
- SOIL BORING
- GROUNDWATER MONITORING WELL
- D17 SOIL GAS POINT DESIGNATION
- PARCEL BOUNDARY
- LOT BOUNDARY

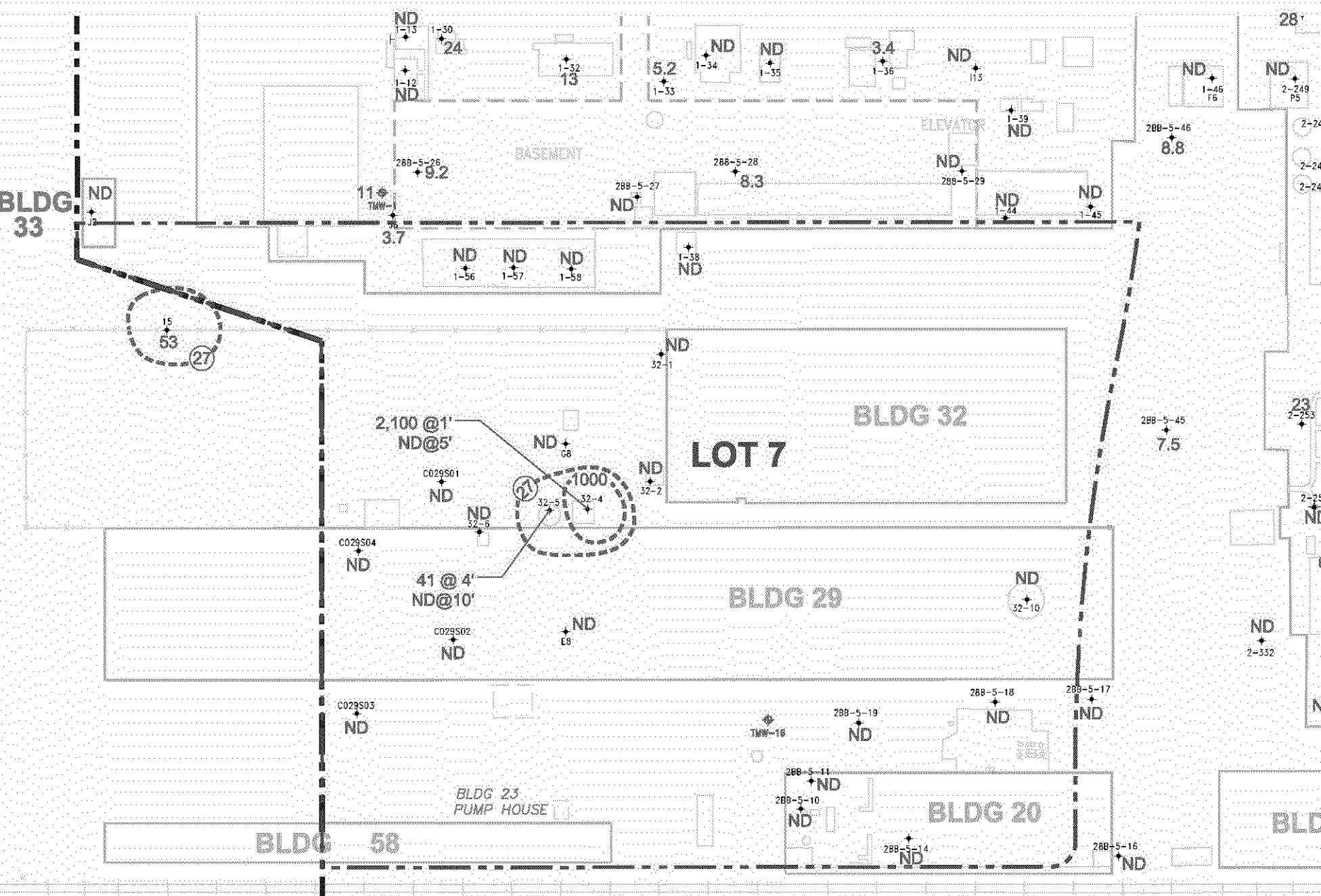
**HALEY & ALDRICH**  
UNDERGROUND ENGINEERING & ENVIRONMENTAL SOLUTIONS

**PARCEL C - LOT 7 SOIL BORING & SOIL GAS SAMPLE LOCATIONS**

SCALE: AS SHOWN DRAWN: SAL REVIEWED: SPZ DATE: 29 MARCH 2002 PROJECT: 27285-013

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BOE-C6-0002335



**NOTES:**

1. SURVEY DATA PROVIDED BY TAIT ENVIRONMENTAL, INC.
2. ALL CONCENTRATIONS IN UNITS OF MICROGRAMS PER KILOGRAM ( $\mu\text{g}/\text{kg}$ ).
3. THE SITE-SPECIFIC FIELD ACTION LEVEL (FAL) FOR TCE IS 27  $\mu\text{g}/\text{kg}$ .
4. APPROXIMATE SURFACE ELEVATION AT TIME OF INVESTIGATION WAS 51.5 FEET MSL.

0 20 40 60

FEET

ALL DIMENSIONS AND LOCATIONS APPROXIMATE

SOURCE OF BASEMAP: KENNEDY JENKS CONSULTANTS, 2000, SAMPLING AND ANALYSIS PLAN, BOEING REALTY CORPORATION'S C-6 FACILITY, PARCEL C, LOS ANGELES, CA, AUGUST 16, 2000.  
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288-5-45	SOIL BORINGS	170	TCE CONCENTRATION IN MICROGRAMS PER KILOGRAM ( $\mu\text{g}/\text{kg}$ )
TMW-9	GROUNDWATER MONITORING WELLS	—	PARCEL C BOUNDARY
ND	BELOW LABORATORY DETECTION LIMITS	—	LOT 7 BOUNDARY
27	TCE FAL ISOCONCENTRATION CONTOUR	—	
1000	APPROXIMATE TCE ISOCONCENTRATION CONTOUR ( $\mu\text{g}/\text{kg}$ )	—	



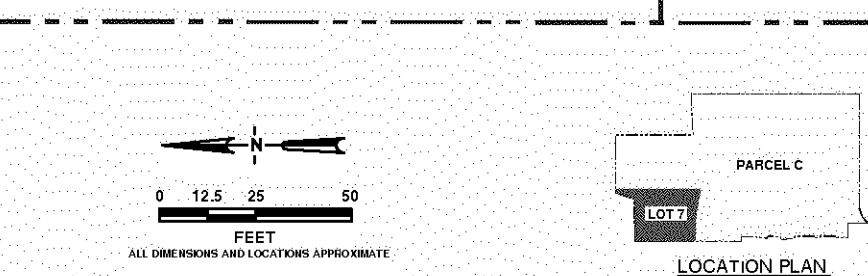
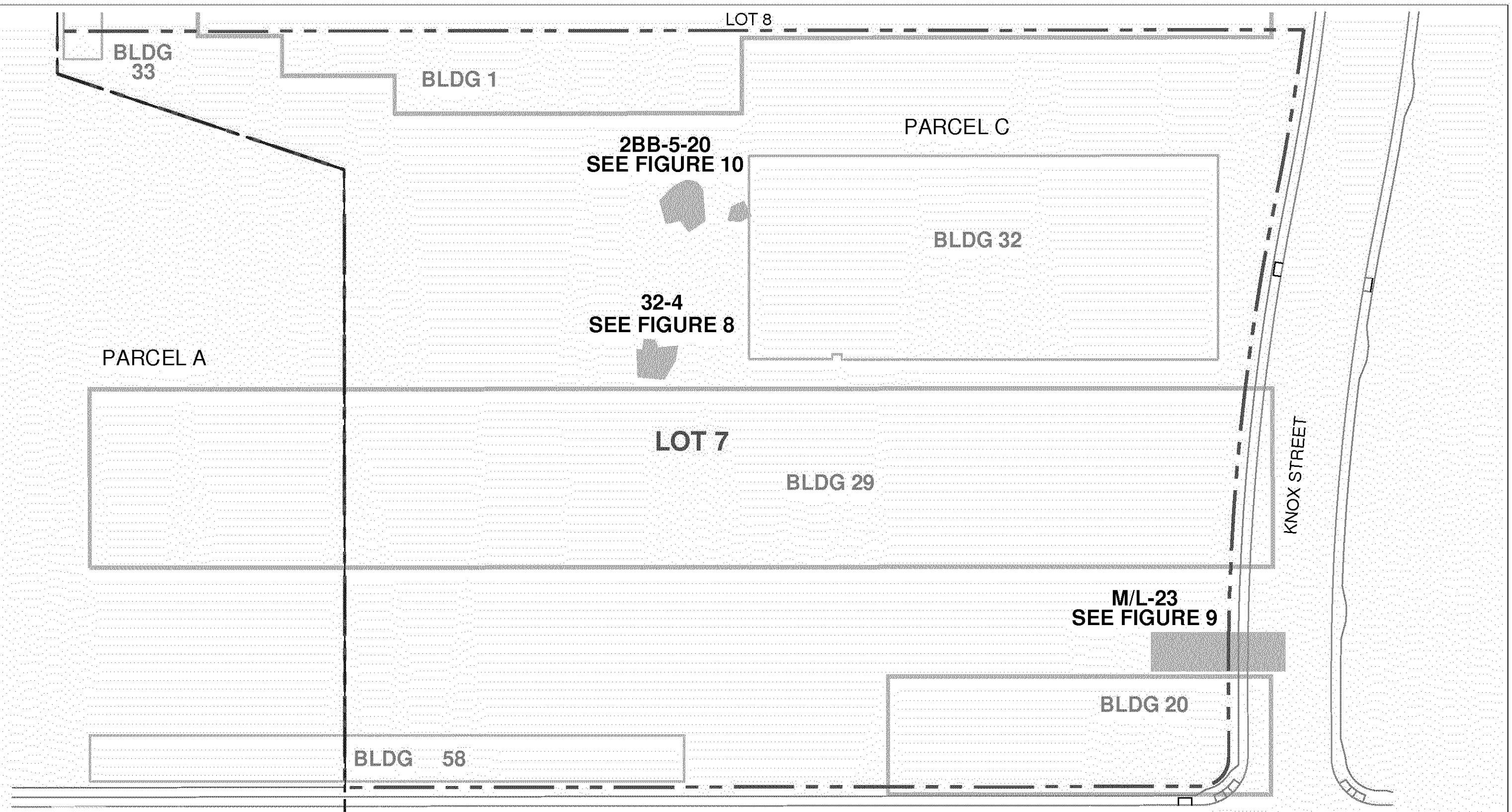
UNDERGROUND  
ENGINEERING &  
ENVIRONMENTAL  
SOLUTIONS

BOEING REALTY CORPORATION  
FORMER C-6 FACILITY  
LOS ANGELES, CALIFORNIA  
**PARCEL C - LOT 7**  
**PRE-EXCAVATION TCE**  
**CONCENTRATIONS IN SOIL AT**  
**0-12 FEET BGS**

SCALE: AS SHOWN QA/QC: BB PROJECT: 27285-013  
DRAWN: SAL REVIEWED: RMF DATE: 29 MARCH 2002

FIGURE: 6

BOE-C6-0002336



LEGEND

- PARCEL BOUNDARY
- LOT BOUNDARY
- AREA OF EXCAVATION



UNDERGROUND  
ENGINEERING &  
ENVIRONMENTAL  
SOLUTIONS

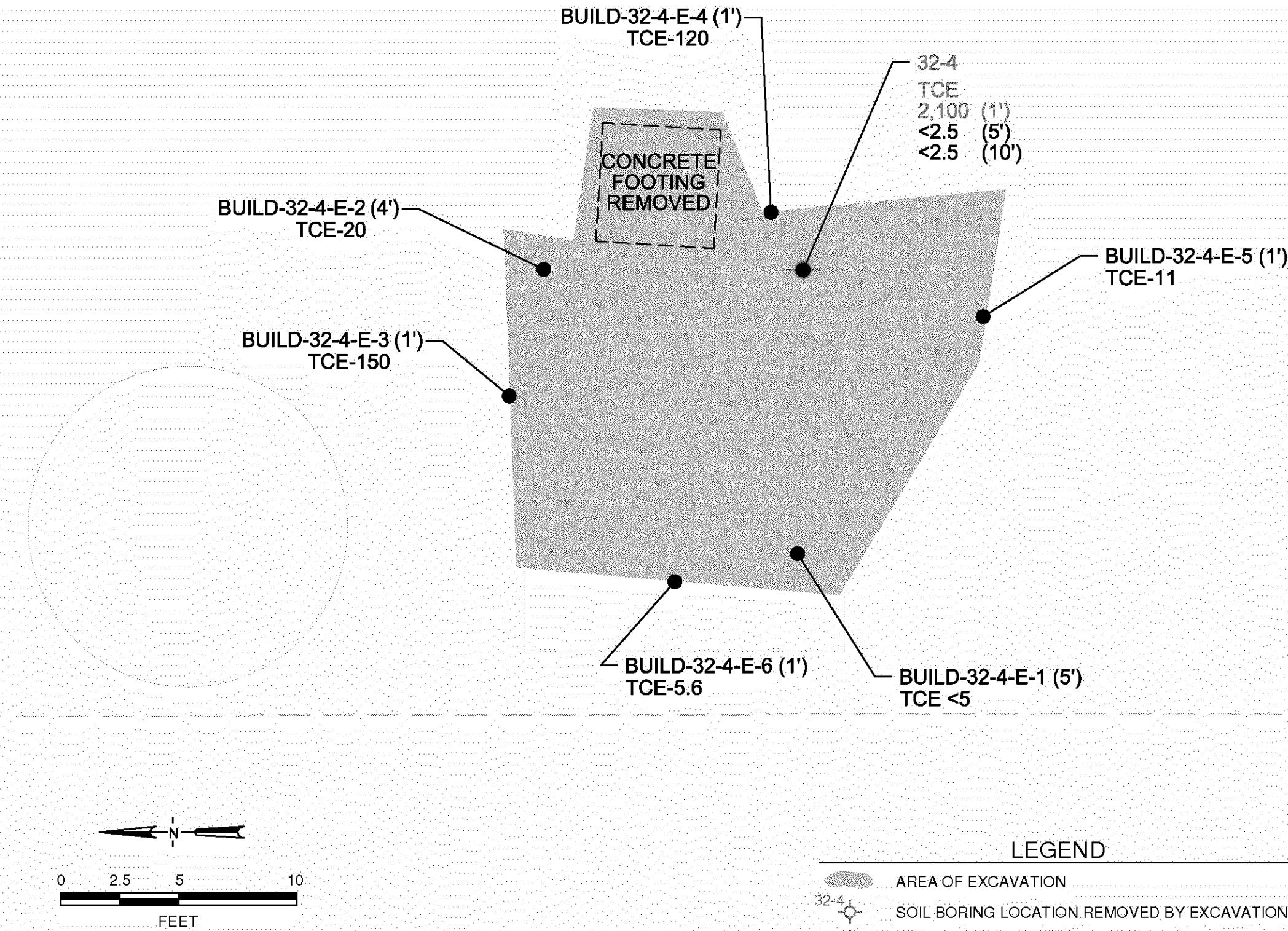
BOEING REALTY CORPORATION  
FORMER C-6 FACILITY  
LOS ANGELES, CALIFORNIA

FIGURE: 7

PARCEL C - LOT 7  
SOIL REMEDIATION EXCAVATION  
LOCATION MAP

SCALE: AS SHOWN  
DRAWN: SAL

PROJECT: 27285-013  
REVIEWED: SPZ  
DATE: 29 MARCH 2002



ALL DIMENSIONS AND LOCATIONS APPROXIMATE.

SOURCE OF BASE MAP:  
KENNEDY JENKS CONSULTANTS, 2000, SAMPLING AND  
ANLYSIS PLAN; BOEING REALTY CORPORATION'S C-6  
FACILITY - PARCEL C, LOS ANGELES, CA, AUGUST 16, 2000.

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32-4

●

TCE

5.7

(5')

AREA OF EXCAVATION

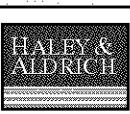
SOIL BORING LOCATION REMOVED BY EXCAVATION

GRAB SAMPLE LOCATION LEFT IN PLACE

TRICHLOROETHENE

TCE CONCENTRATION (ug/kg) IN SAMPLE

DEPTH BELOW SURROUNDING GRADE (FT.)



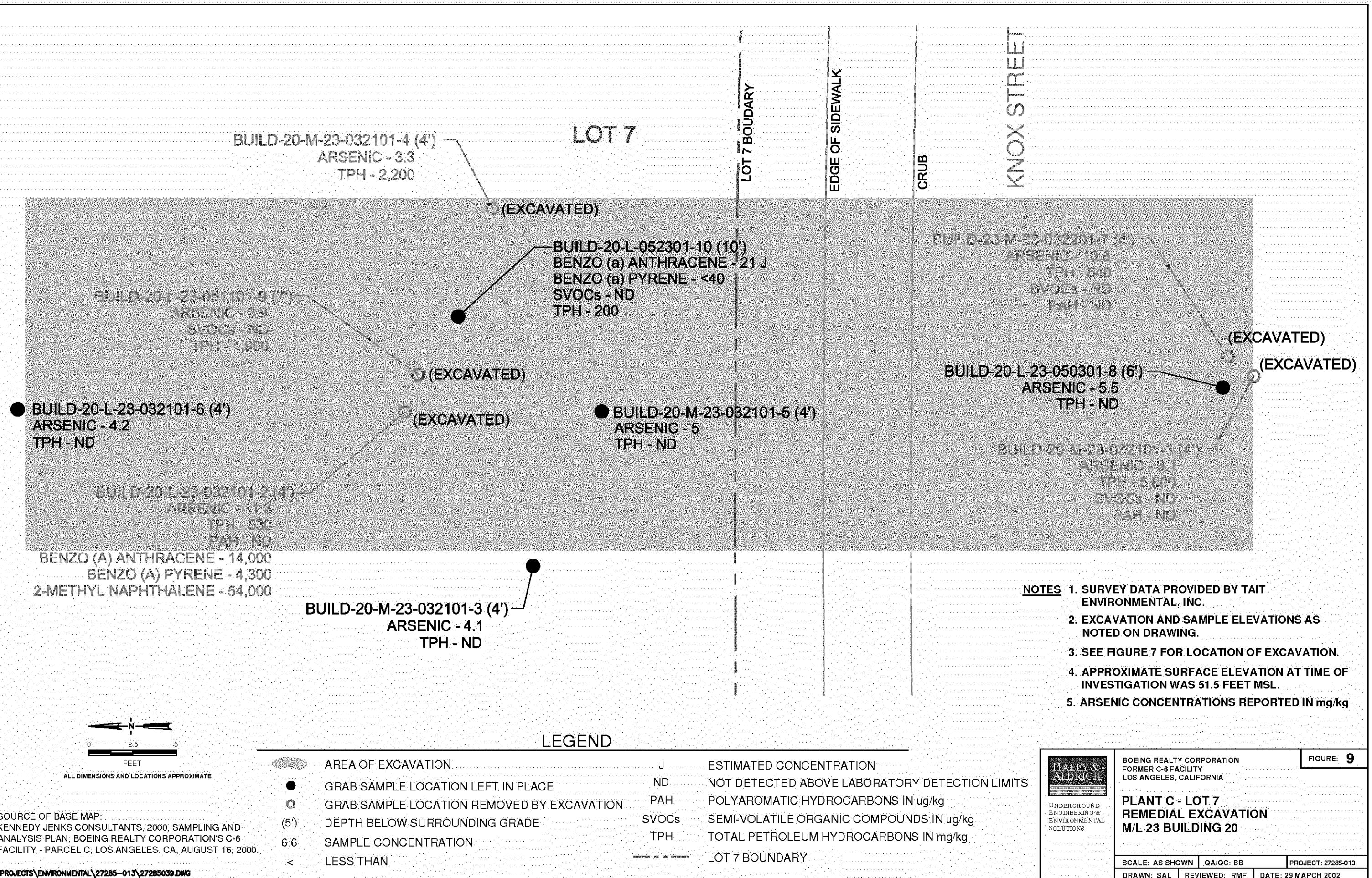
BOEING REALTY CORPORATION  
FORMER C-6 FACILITY  
LOS ANGELES, CALIFORNIA

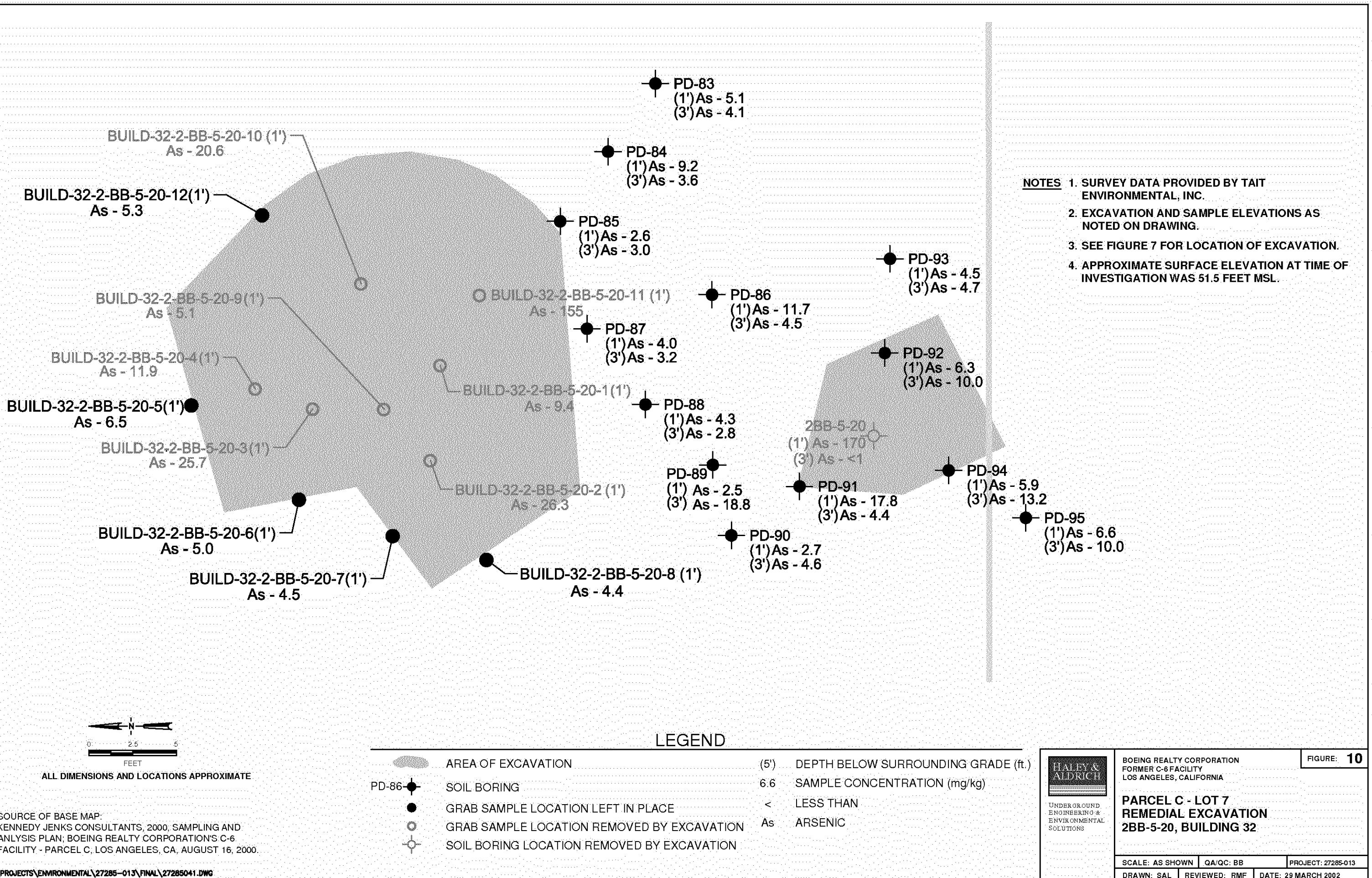
PARCEL C - LOT 7  
REMEDIAL EXCAVATION  
32-4, BUILDING 32

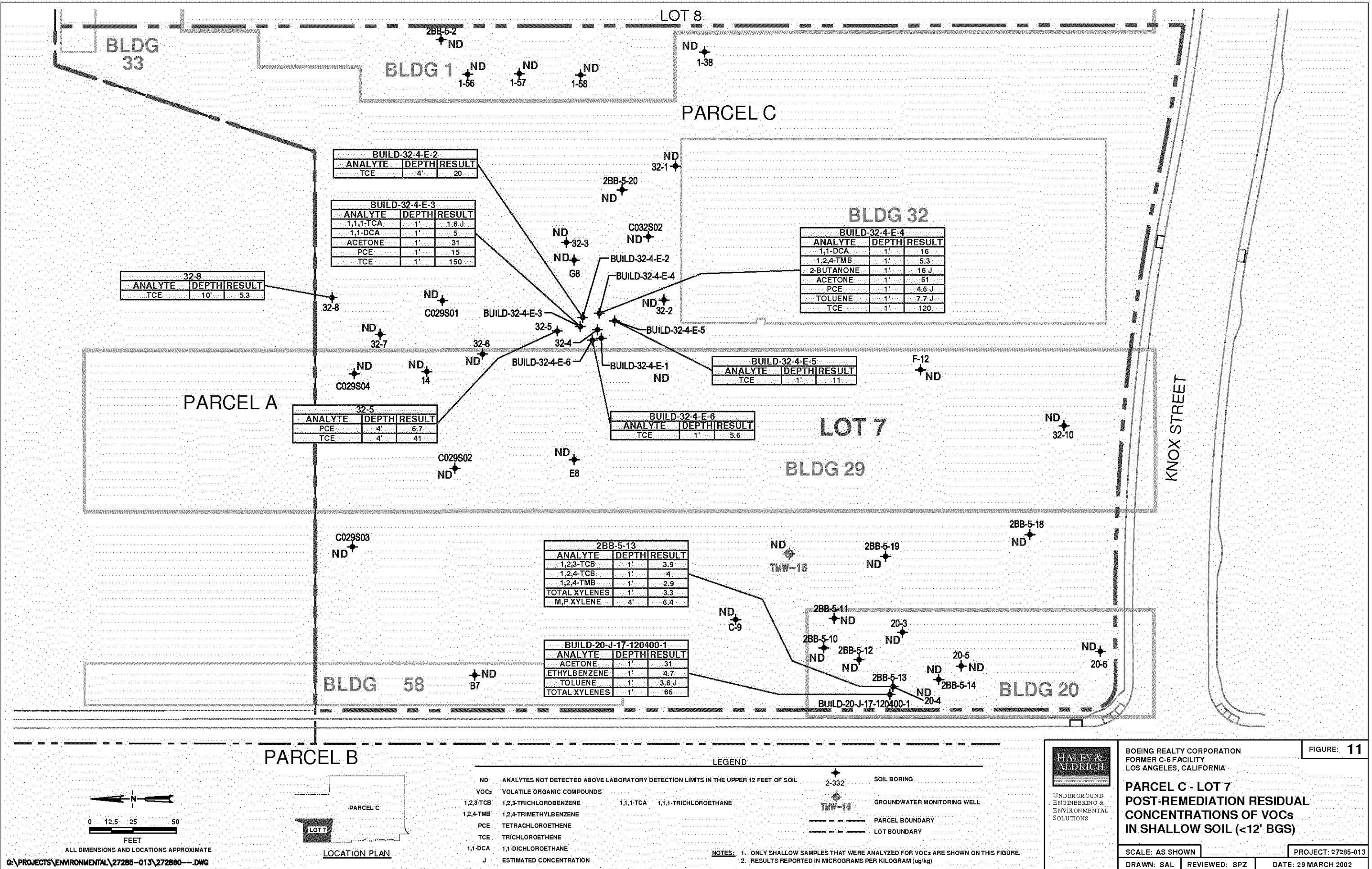
SCALE: AS SHOWN QA/QC: BB PROJECT: 27285-013  
DRAWN: SAL REVIEWED: RMF DATE: 29 MARCH 2002

FIGURE: 8

BOE-C6-0002338







BOEING REALTY CORPORATION  
FORMER C-6 FACILITY  
LOS ANGELES, CALIFORNIA

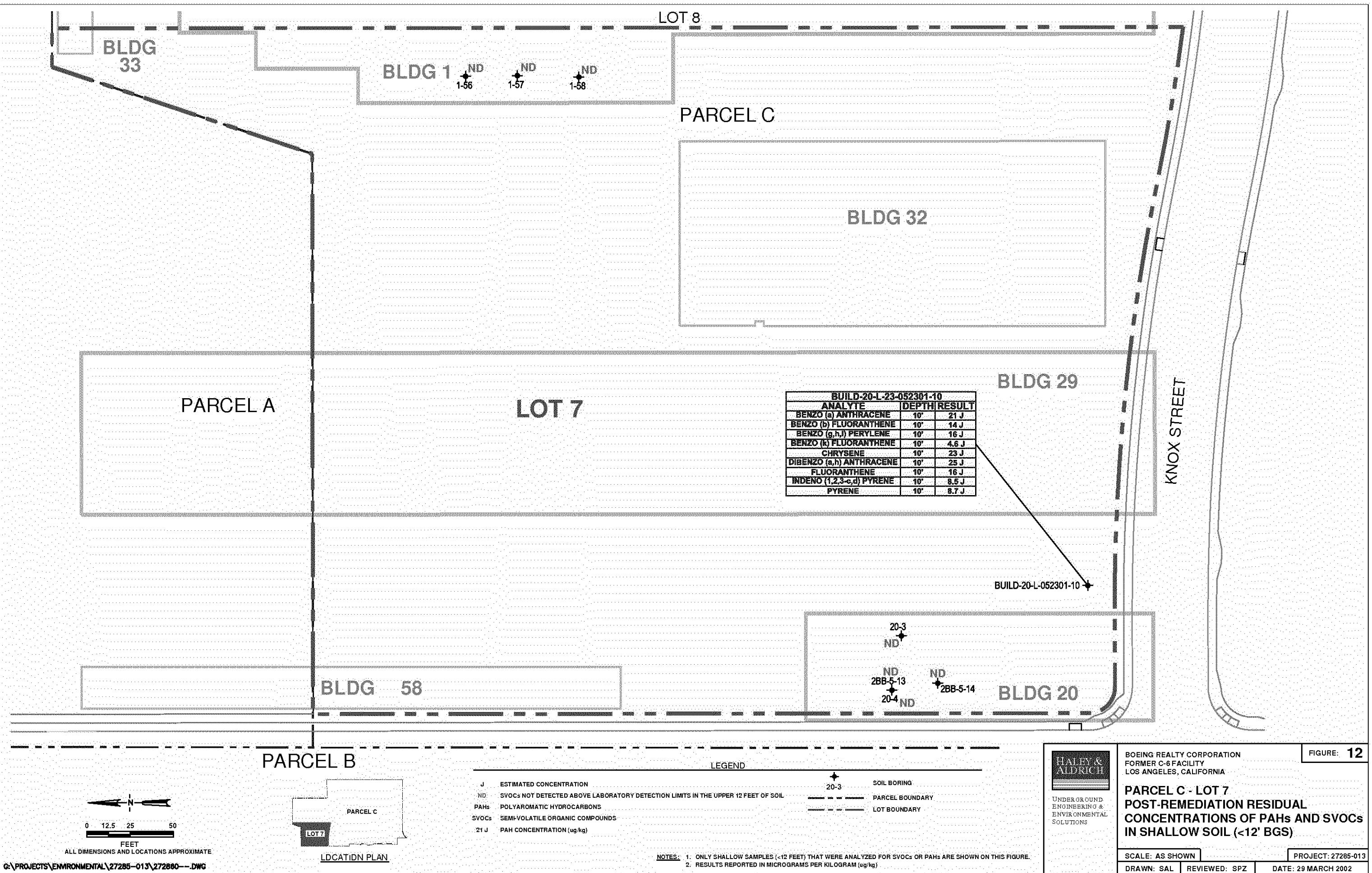
**PARCEL C - LOT 7  
POST-REMEDIATION RESIDUAL  
CONCENTRATIONS OF VOCs  
IN SHALLOW SOIL (<12' BGS)**

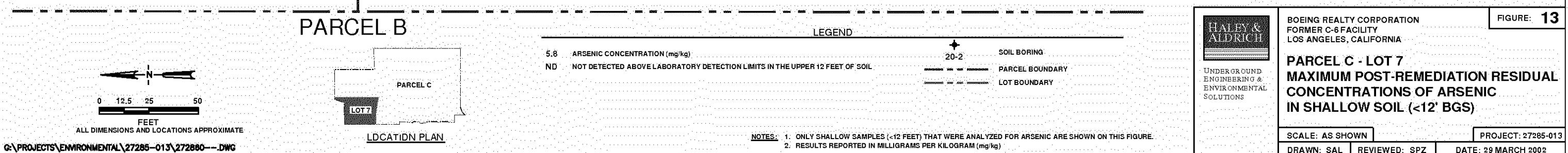
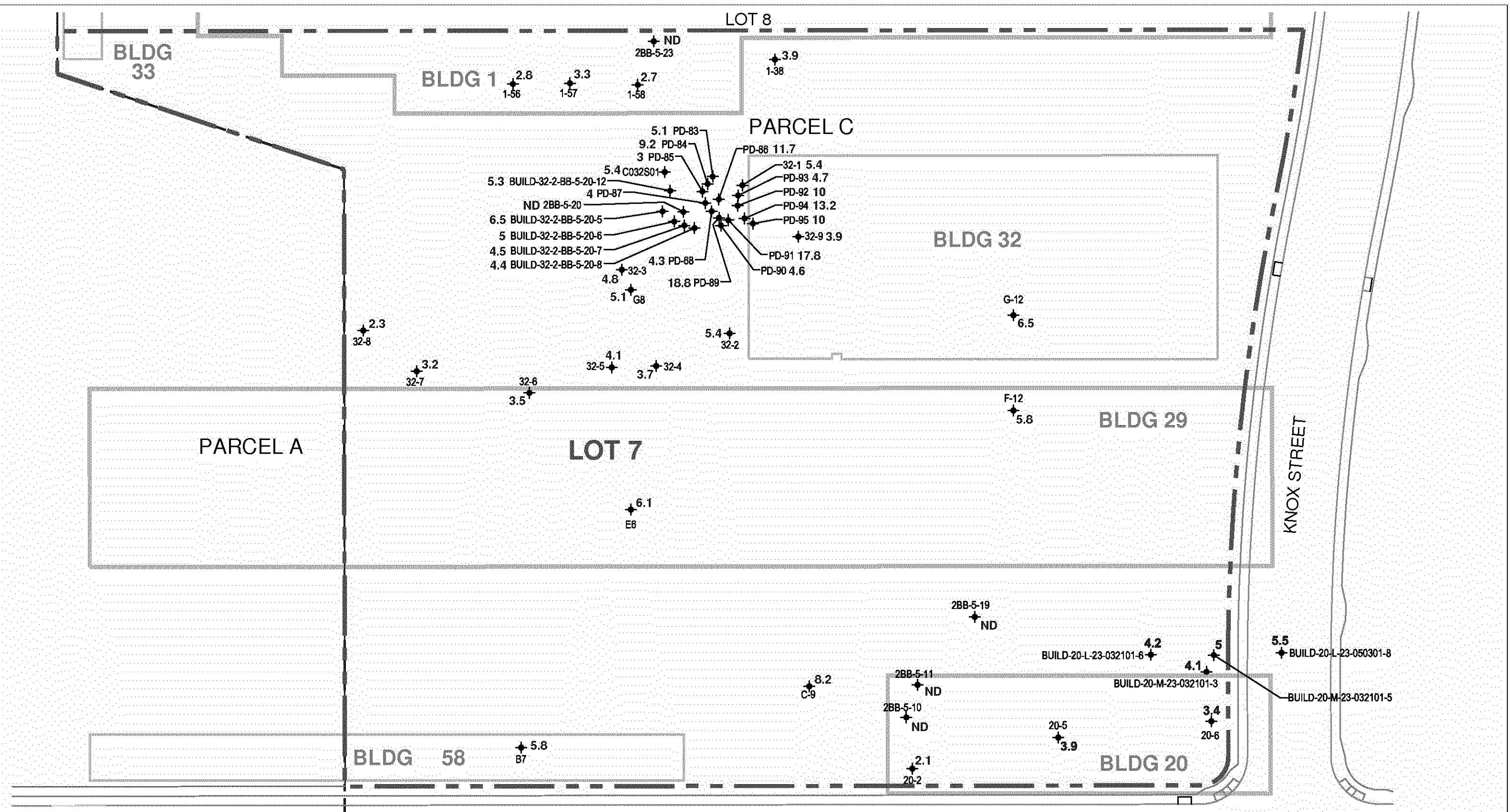
SCALE: AS SHOWN

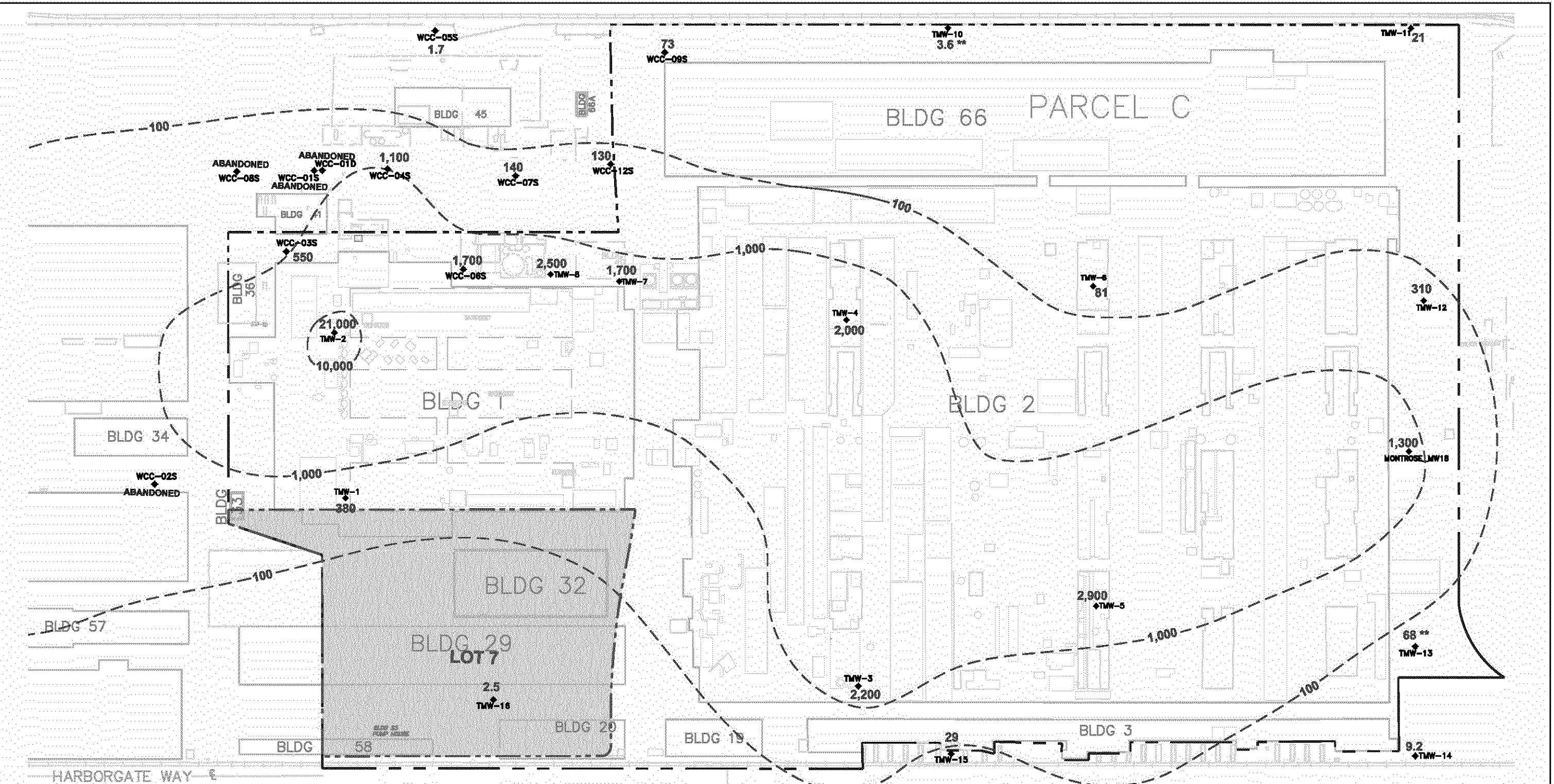
PROJECT: 27285-013

DRAWN: SAL REVIEWED: SPZ

29 MARCH 2002







#### LEGEND

TMW-9 ♦ GROUNDWATER MONITORING WELL

DATA COLLECTED MAY, 2001

FIGURE: 14

— 100 — APPROXIMATE TCE ISOCONCENTRATION CONTOUR (ug/l)

1,700 TCE CONCENTRATION IN SAMPLE (ug/L)

— - - PARCEL C BOUNDARY

— - - LOT 7 BOUNDARY

ALL DIMENSIONS AND LOCATIONS ARE APPROXIMATE

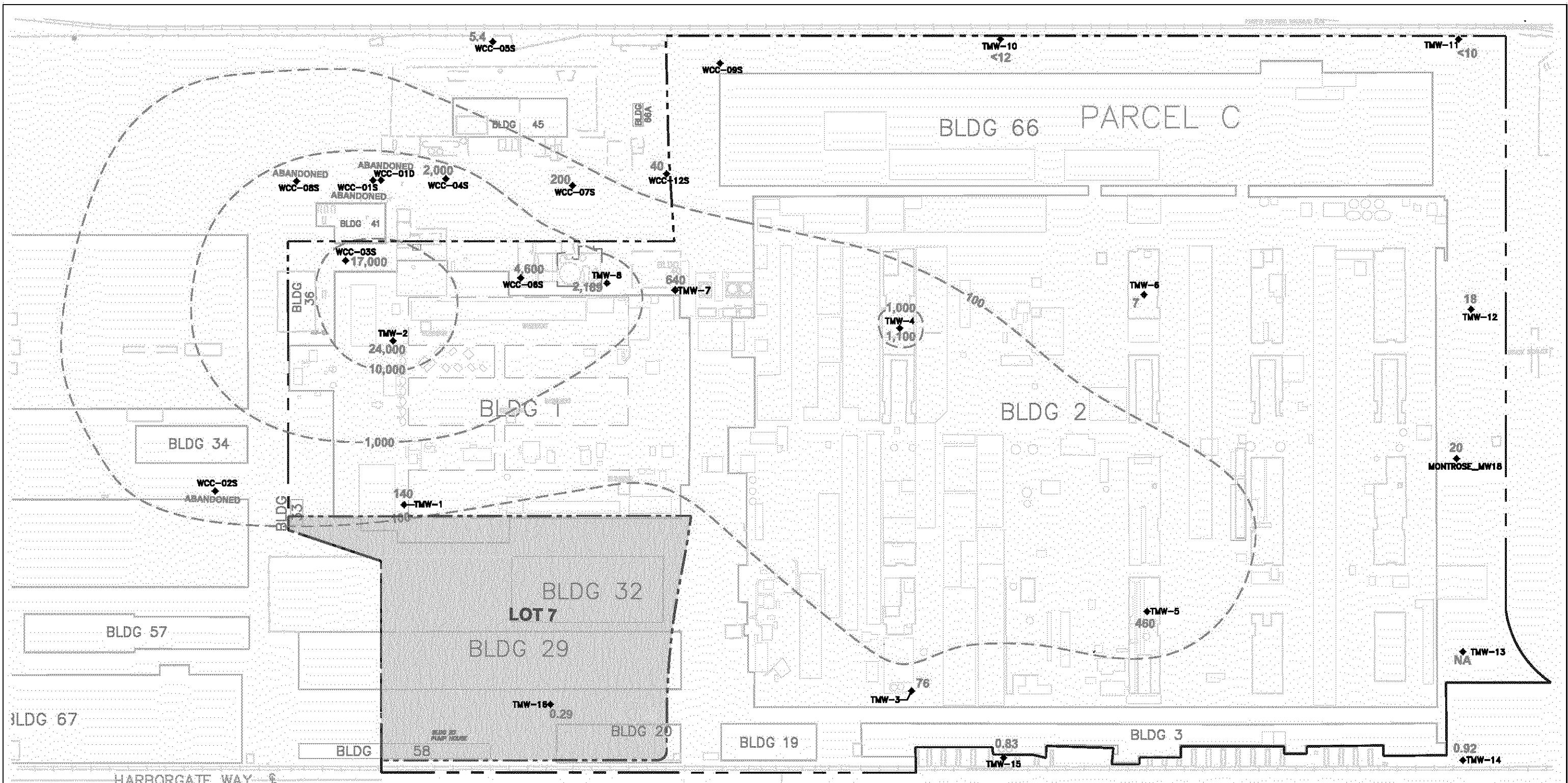
SOURCE OF BASEMAP: KENNEDY JENKS CONSULTANTS, 2000, SAMPLING AND ANALYSIS PLAN, BOEING REALTY CORPORATION'S C-6 FACILITY, PARCEL C, LOS ANGELES, CA, AUGUST 16, 2000.  
CONTOURS TAKEN FROM GROUNDWATER MONITORING REPORT, ANNUAL EVENT, JANUARY/FEBRUARY, 2001, BOEING REALTY CORPORATION, FORMER C-6 FACILITY, LOS ANGELES, CALIFORNIA, JUNE, 2001  
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BOEING REALTY CORPORATION.  
FORMER C-6 FACILITY  
LOS ANGELES, CALIFORNIA

PAECEL C - LOT 7  
TCE ISOCONCENTRATION CONTOURS  
IN GROUNDWATER, JANUARY 2001

SCALE: AS SHOWN QA/QC: BB PROJECT: 27285-013  
DRAWN: SAL REVIEWED: RMF DATE: 29 MARCH 2002



### LEGEND

- TMW-9 ♦ GROUNDWATER MONITORING WELL
- 100 APPROXIMATE 1,1-DCE ISOCONCENTRATION CONTOUR (ug/l)
- PARCEL C BOUNDARY
- 140 1,1-DCE CONCENTRATION IN SAMPLE
- < LESS THAN
- 0.29 LOT 7 BOUNDARY

ALL DIMENSIONS AND LOCATIONS ARE APPROXIMATE

SOURCE OF BASEMAP: KENNEDY JENKS CONSULTANTS, 2000. SAMPLING AND ANALYSIS PLAN, BOEING REALTY CORPORATION'S C-6 FACILITY, PARCEL C, LOS ANGELES, CA, AUGUST 16, 2000.  
CONTOURS TAKEN FROM GROUNDWATER MONITORING REPORT, ANNUAL EVENT, JANUARY/FEBRUARY, 2001, BOEING REALTY CORPORATION, FORMER C-6 FACILITY, LOS ANGELES, CALIFORNIA, JUNE, 2001  
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UNDERGROUND  
ENGINEERING &  
ENVIRONMENTAL  
SOLUTIONS

BOEING REALTY CORPORATION  
FORMER C-6 FACILITY  
LOS ANGELES, CALIFORNIA

PARCEL C - LOT 7  
1,1-DCE ISOCONCENTRATION CONTOURS  
IN GROUNDWATER, JANUARY 2001

FIGURE: 15

SCALE: AS SHOWN QA/QC: BB PROJECT: 27285-013  
DRAWN: SAL REVIEWED: RMF DATE: 29 MARCH 2002

## **LIMITATIONS**

This report was prepared by Haley & Aldrich, Inc., under the professional direction and review of the registered professionals listed on the cover page. The work described herein was conducted in accordance with generally accepted professional engineering, health risk assessment and geologic practice. No other warranty exists, either expressed or implied.

In addition to data collected by and observations made by Haley & Aldrich personnel, this report incorporates site conditions observed and described by others as reported in records available to Haley & Aldrich as of the date of report preparation. Haley & Aldrich relied—in part—on such data collected by others in the development of interpretations about environmental conditions at the Facility. The accuracy, precision, or representative nature of data originally generated by others could not be independently verified by Haley & Aldrich and would be beyond the scope of this project.

In addition, the passage of time may result in changes in site conditions, technology, or economic conditions which could alter the findings and/or recommendations of the report.

**APPENDIX A**  
**LIMITATIONS**

